

00951778-074299
662720-8/7560

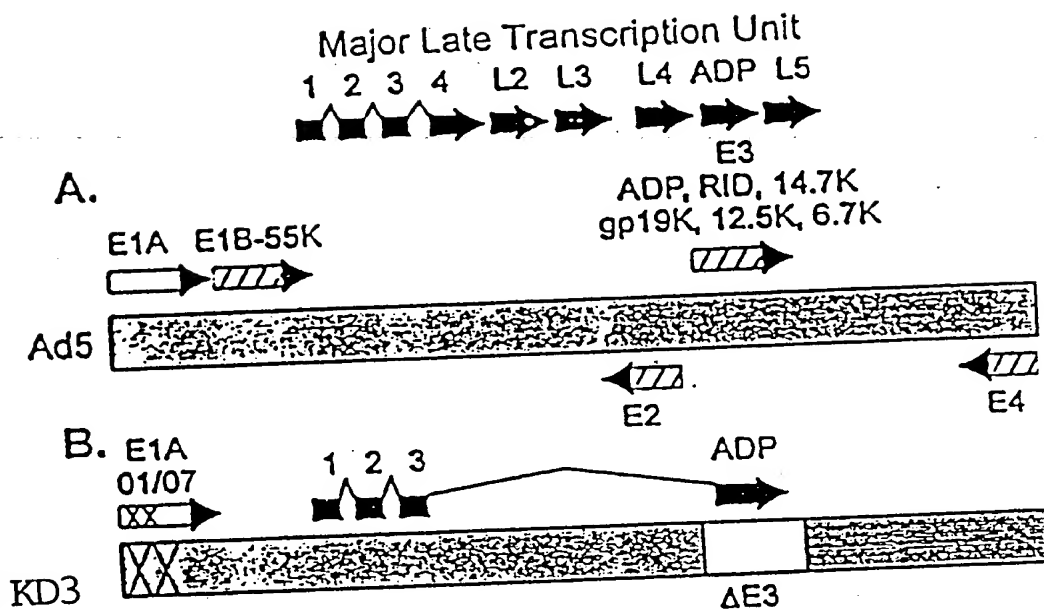


FIGURE 1

ADP Is Expressed Earlier in Infection By KD1, KD3, GZ1, and GZ3

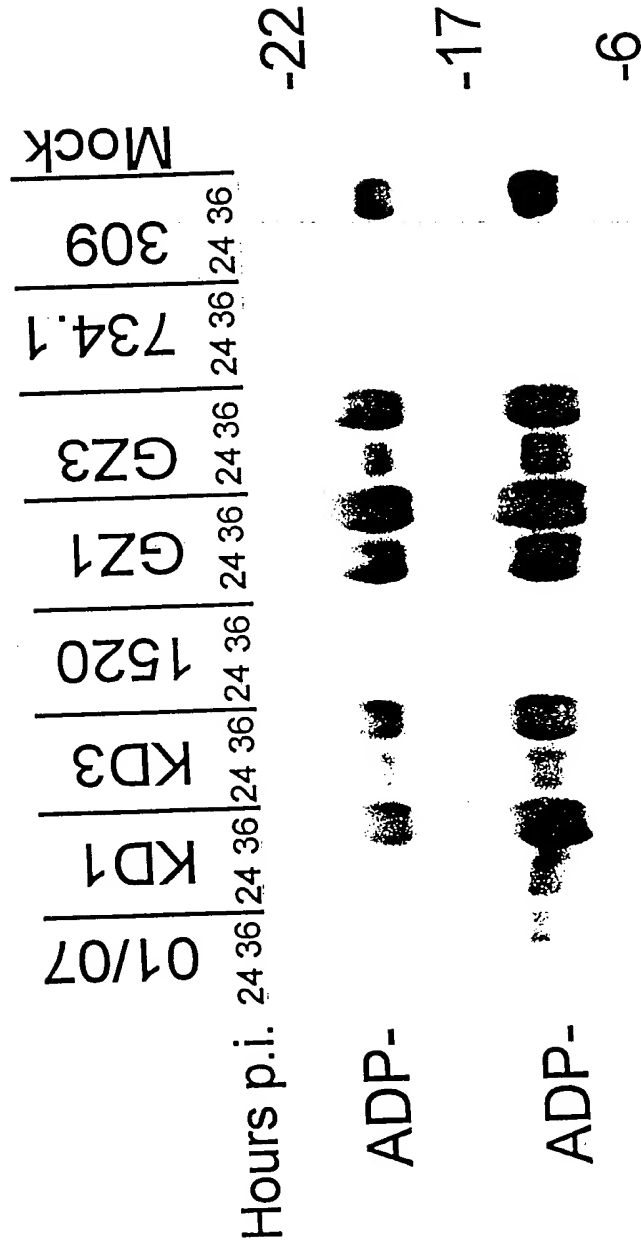


FIGURE 2

The E1A 01/07 Mutation Retards Late Gene Expression

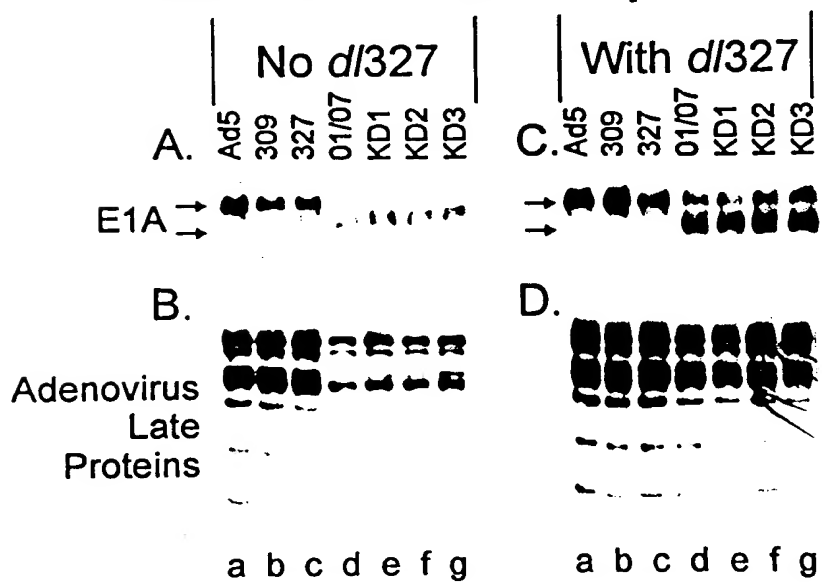


FIGURE 3

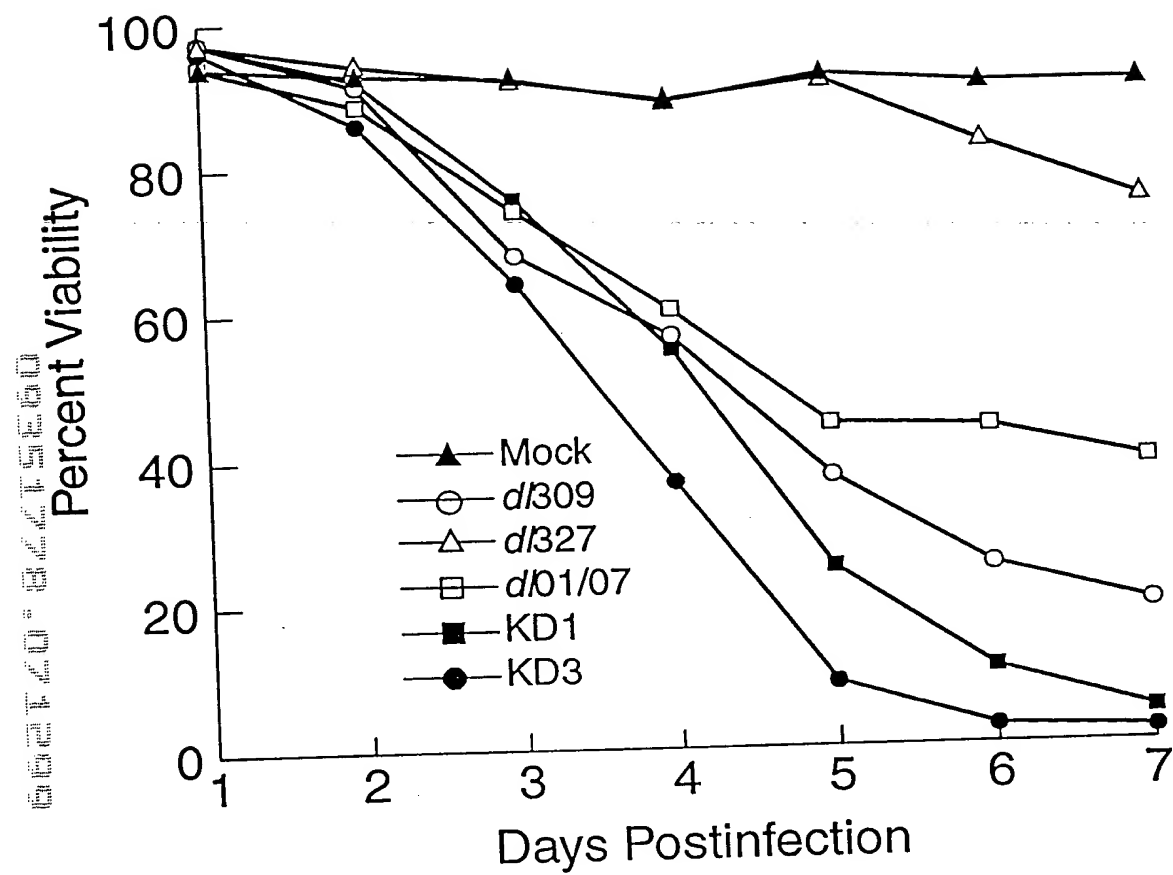


FIGURE 4

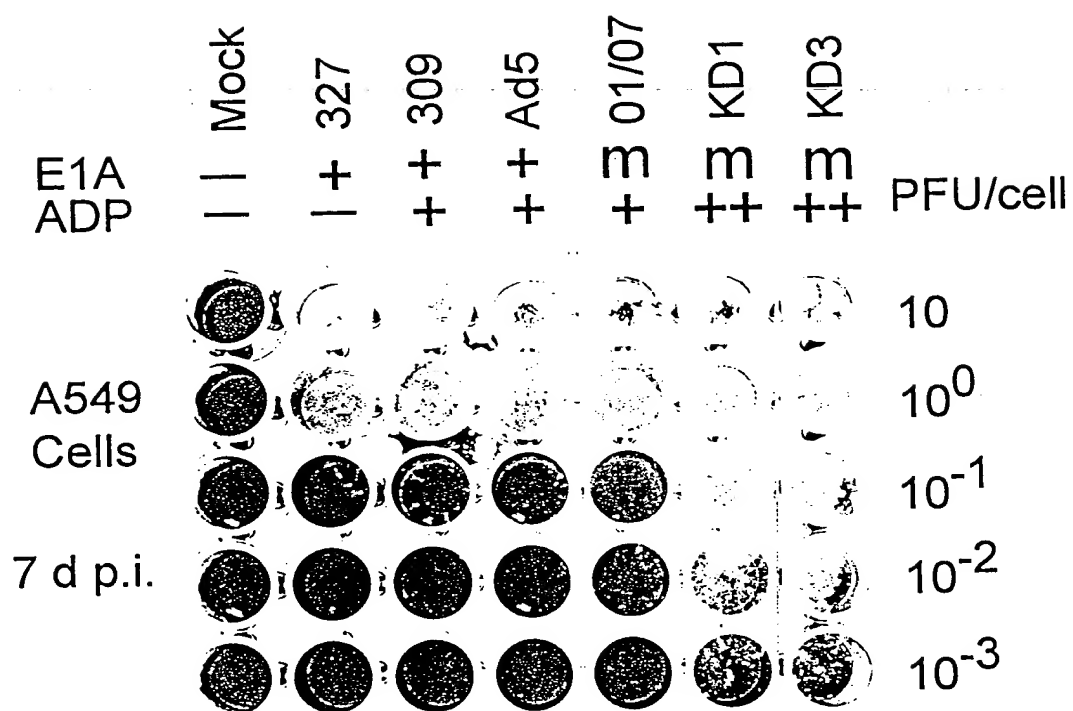


FIGURE 5

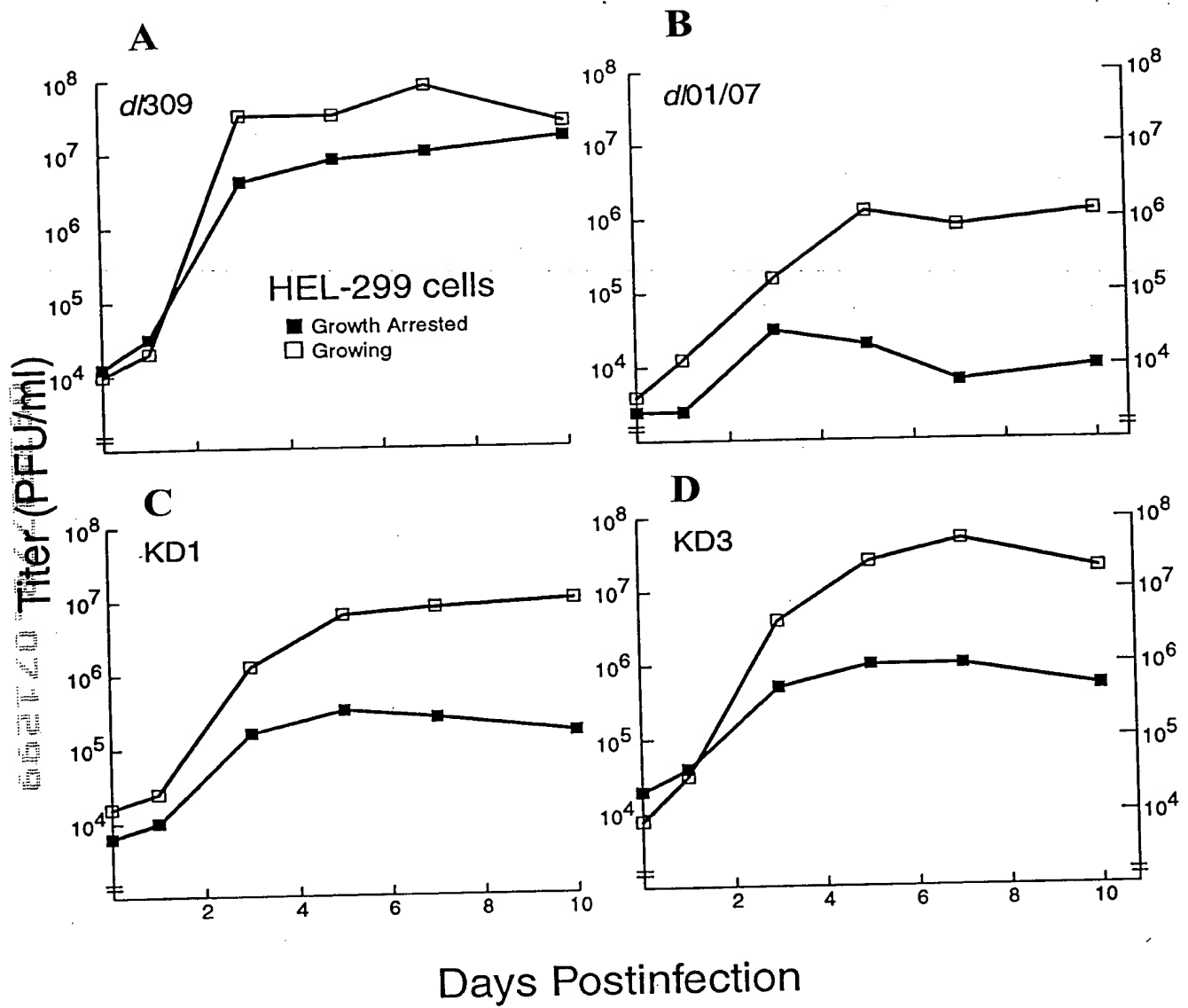
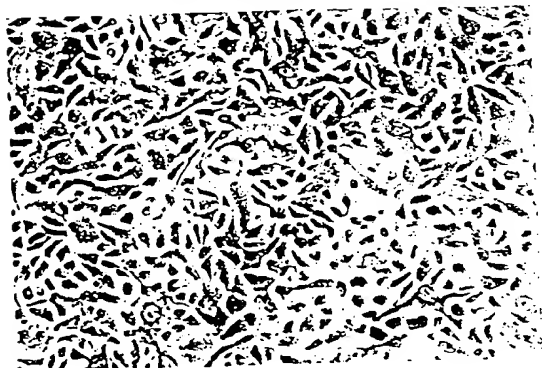
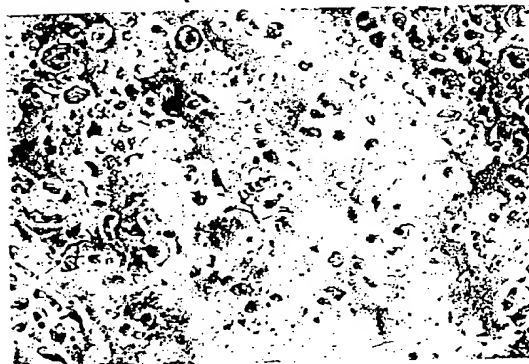


FIGURE 6

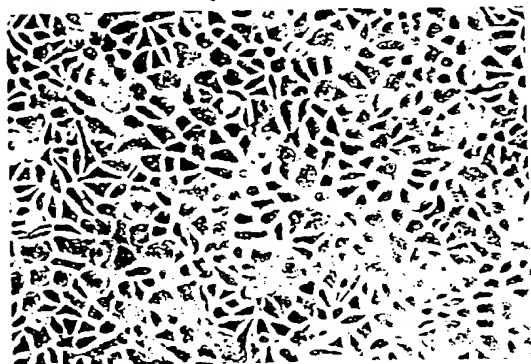
Mock



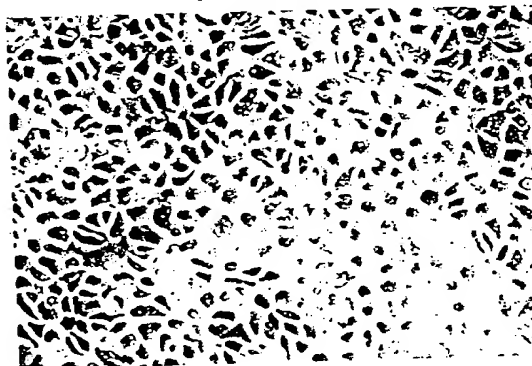
309 (E1A⁺, ADP⁺)



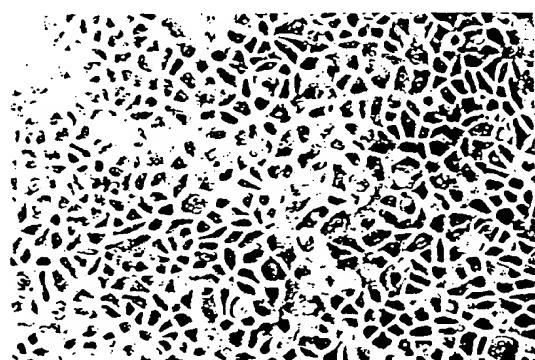
01/07 (E1A^m, ADP⁺)



KD1 (E1A^m, ADP⁺⁺)



KD3 (E1A^m, ADP⁺⁺)



327 (E1A⁺, ADP⁻)

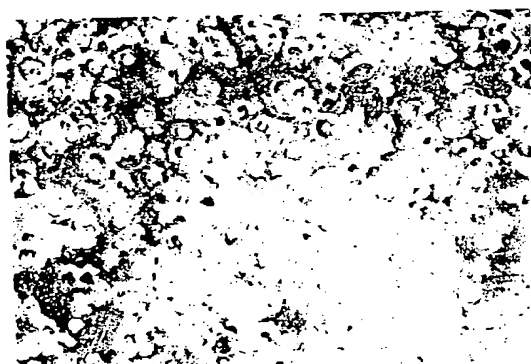


FIGURE 7

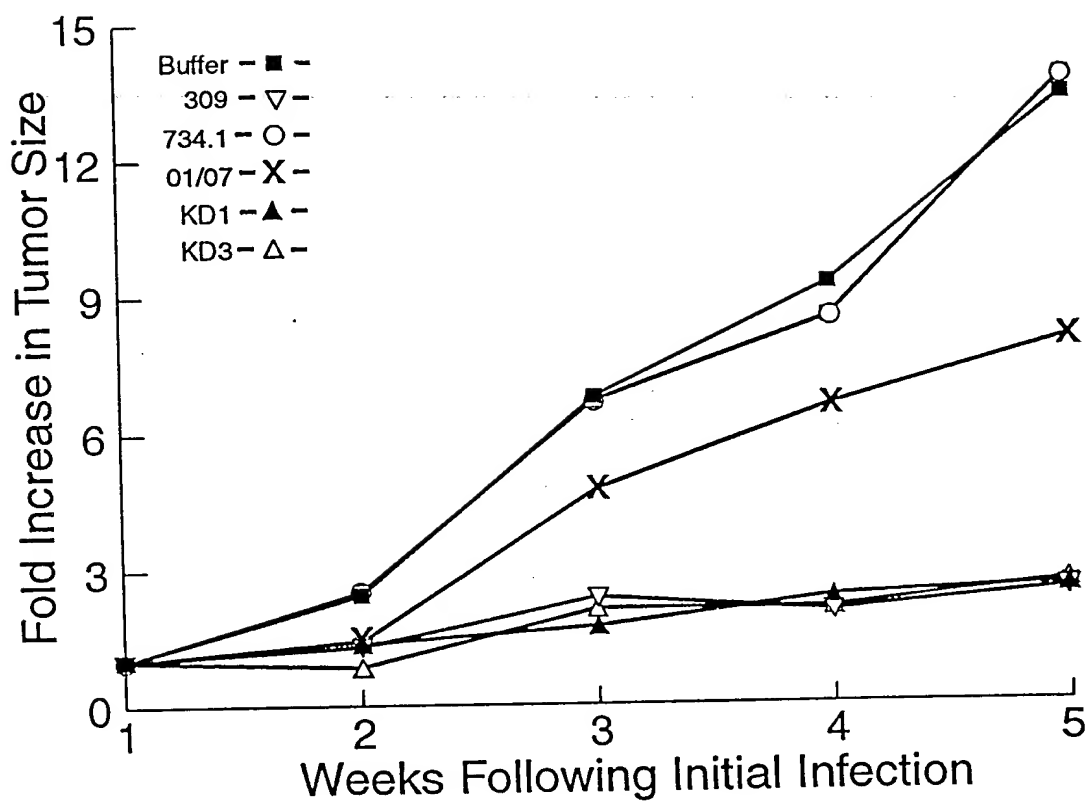


FIGURE 8A

**One Injection of KD3 or GZ3 Inhibits
Growth of A549 tumors
(5×10^8 PFU injected on day 0)**

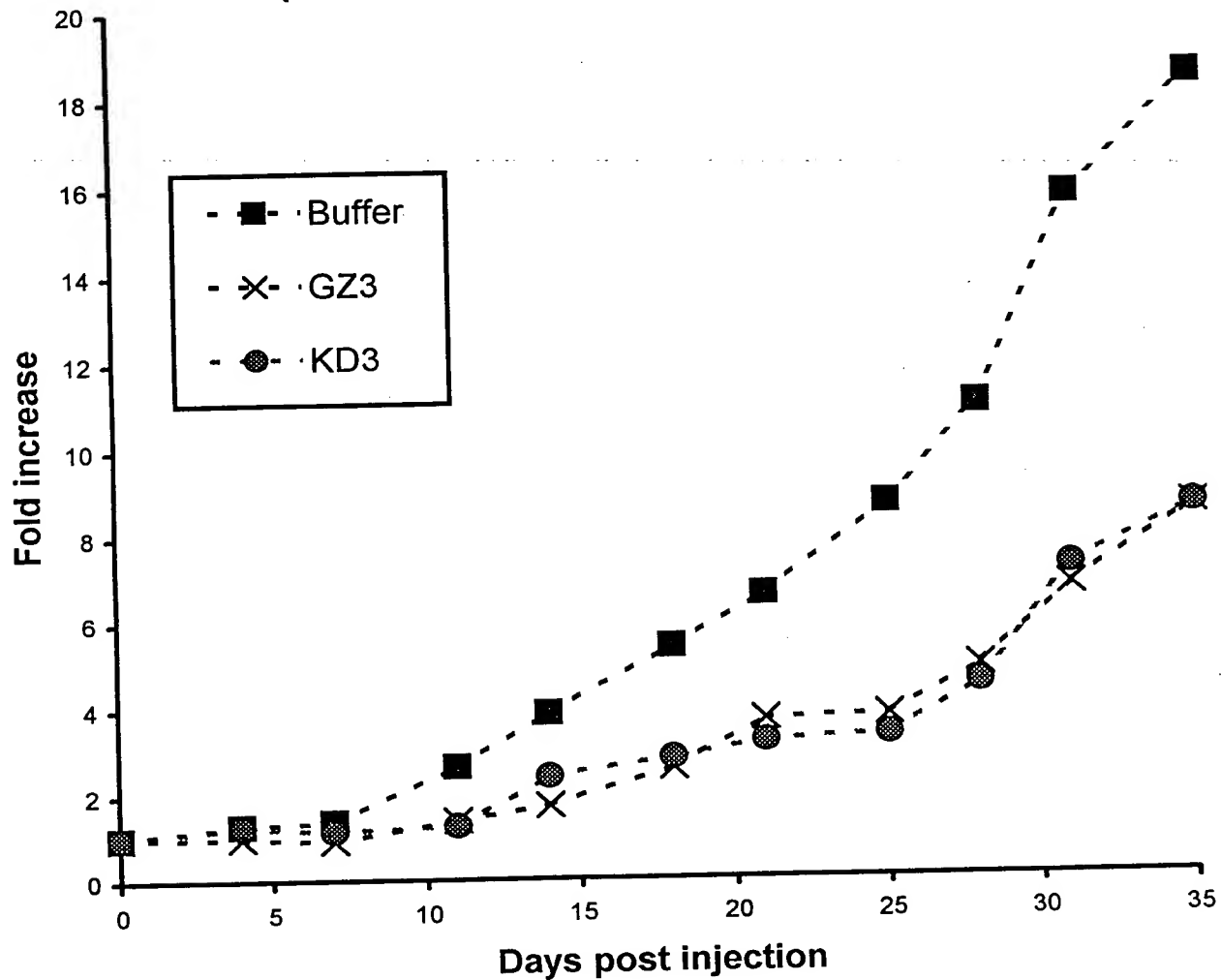


FIGURE 8B

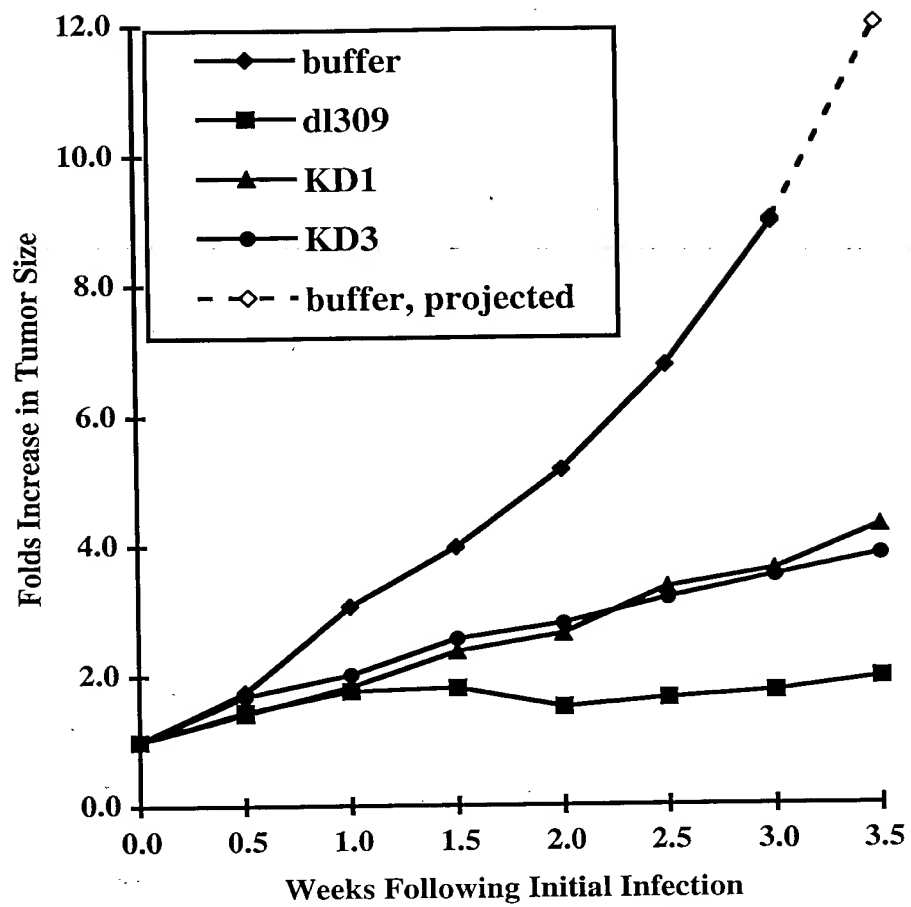


FIGURE 9

00361778-071200

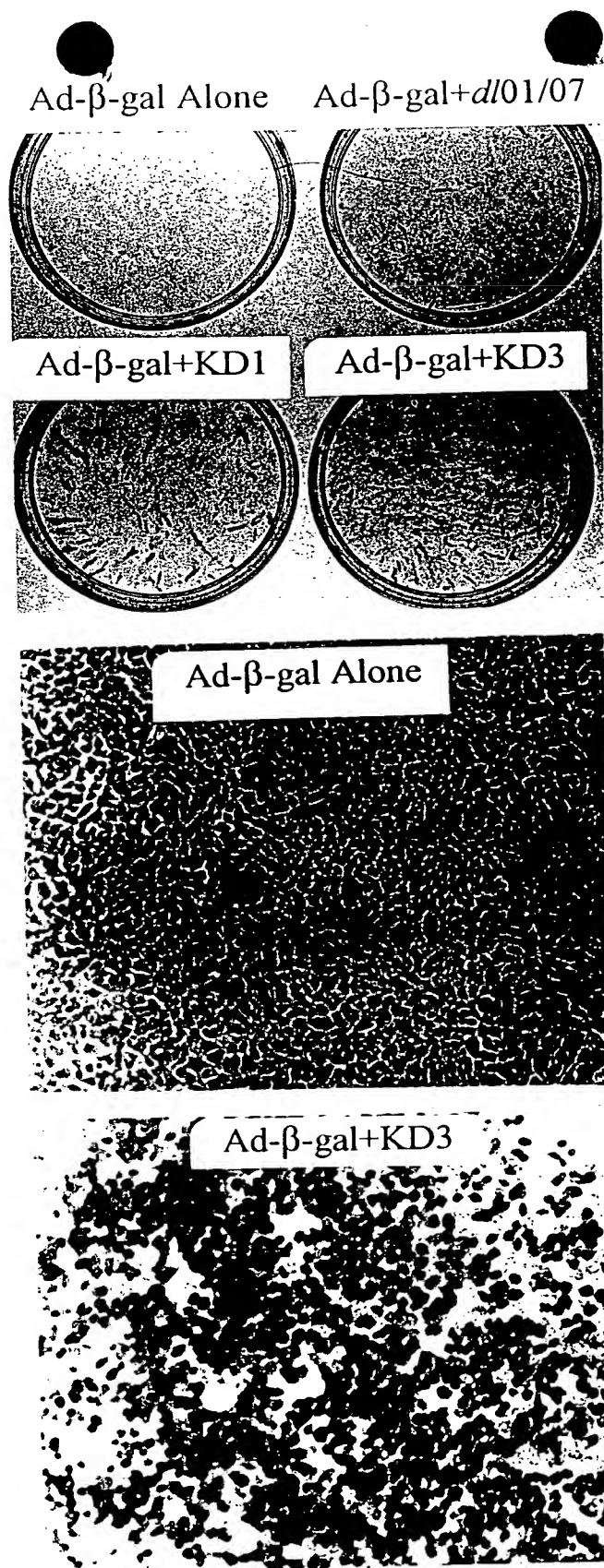


FIGURE 10

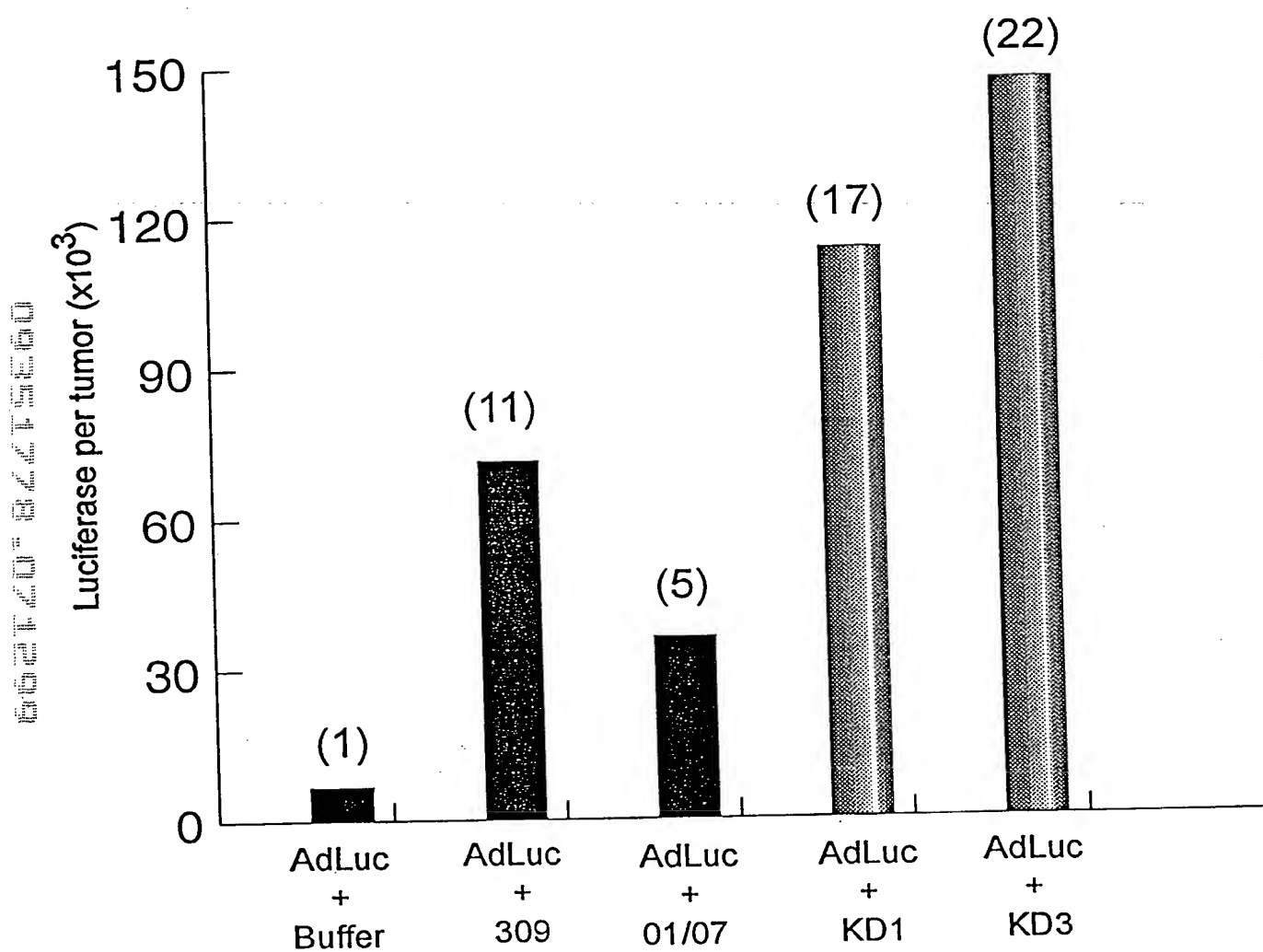


FIGURE 11

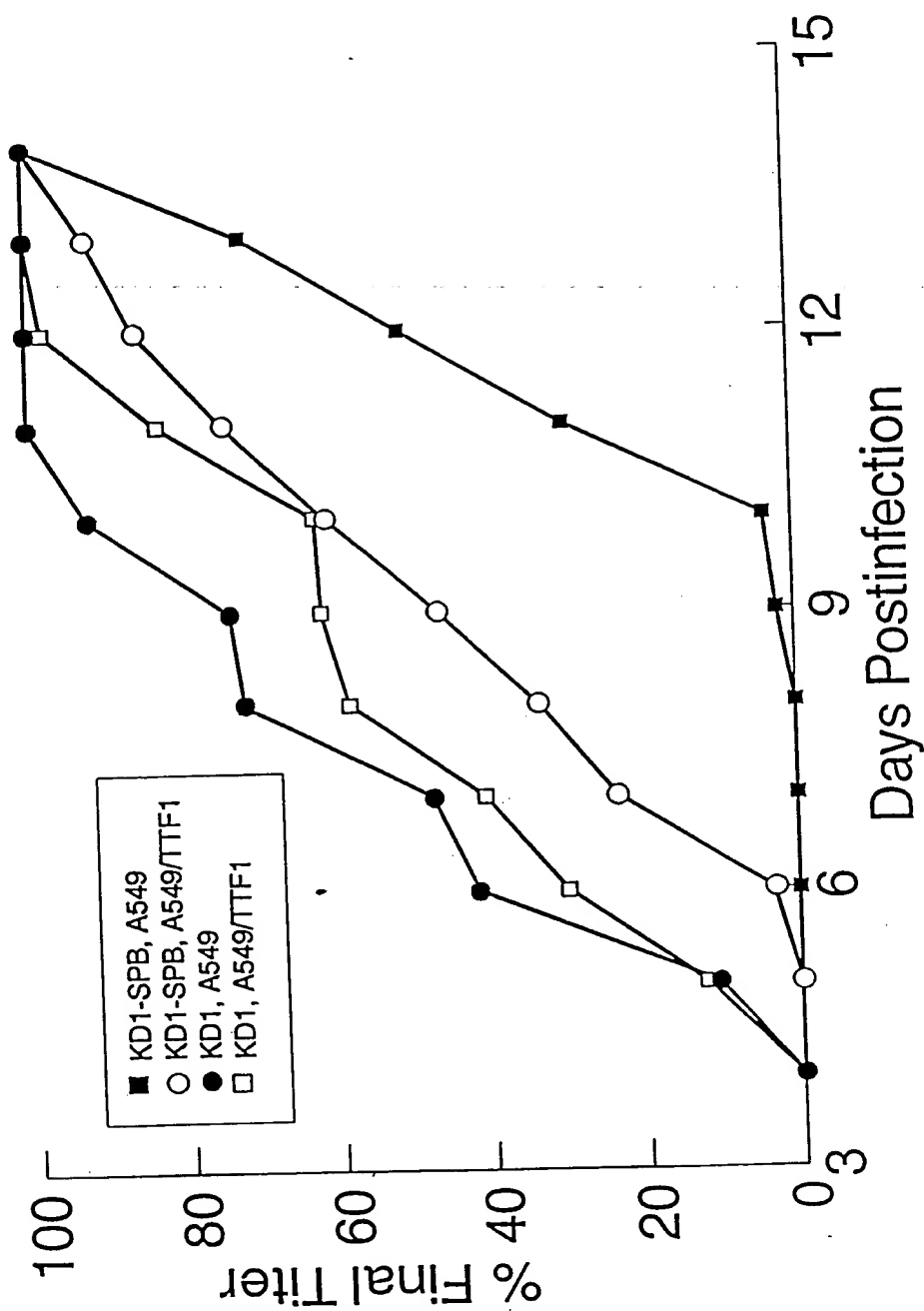


FIGURE 12

KD1-SPB With the SPB Promoter in Place of the E4 Promoter Grows on H44a Lung Cancer Cells with the TTF1 Transcription Factor

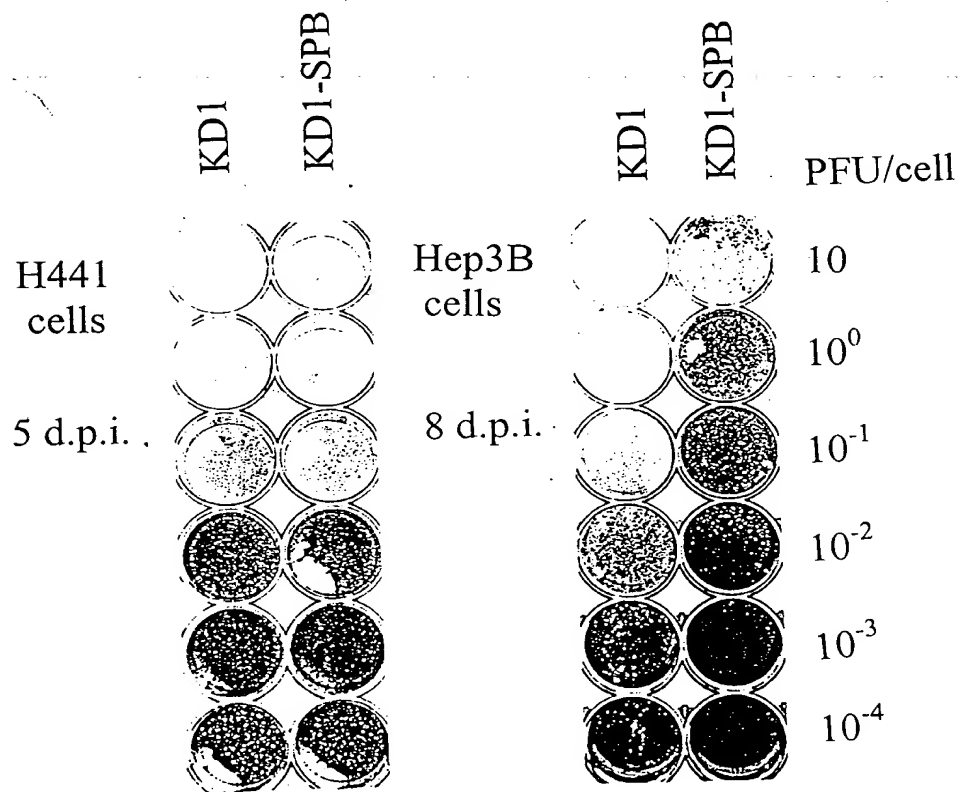


FIGURE 13

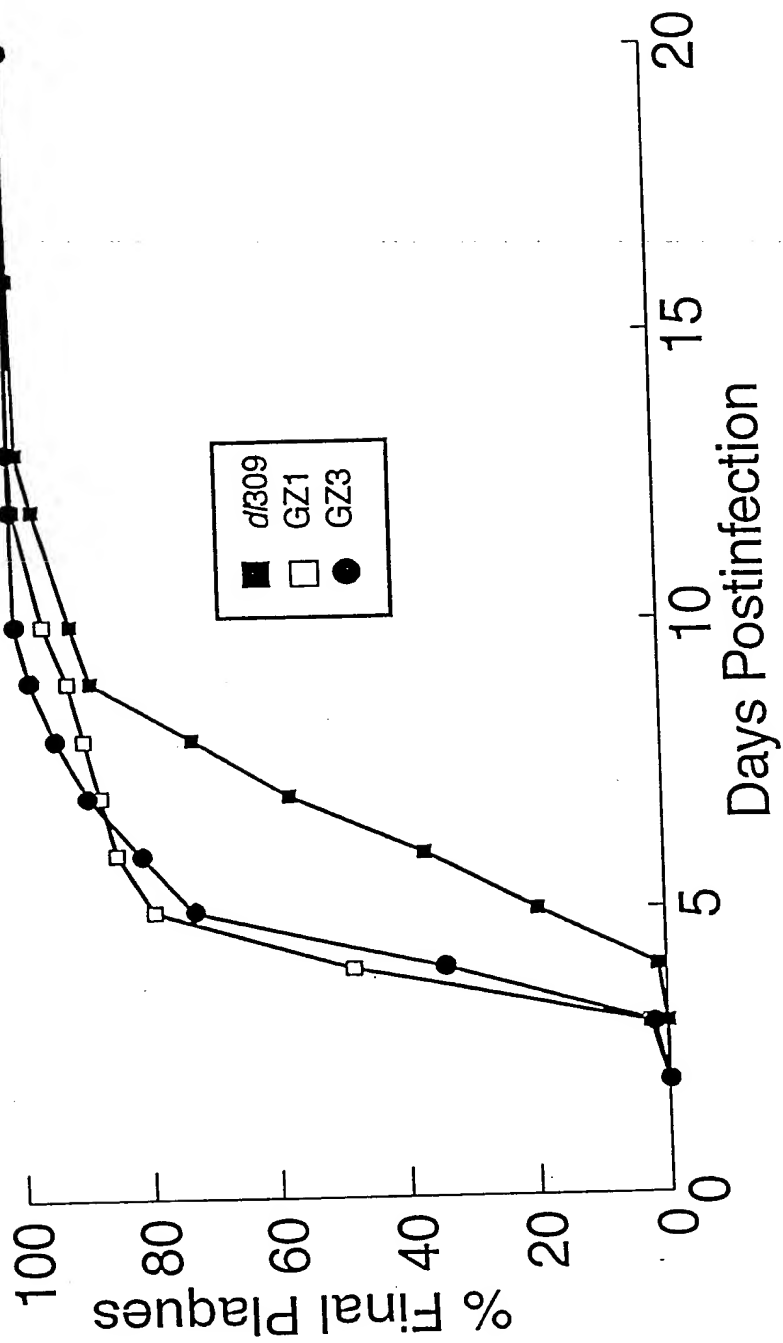


FIGURE 14

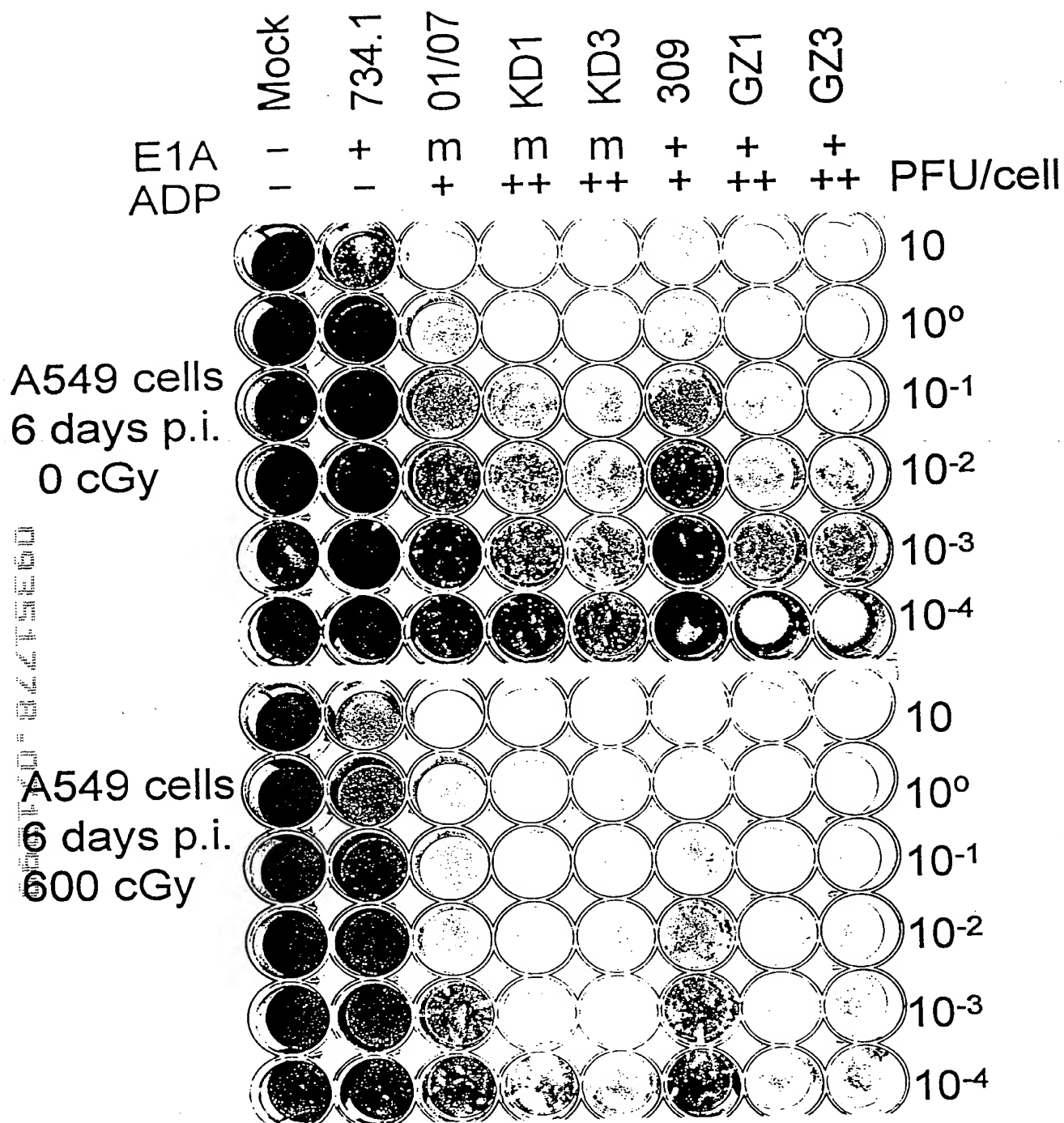


FIGURE 15

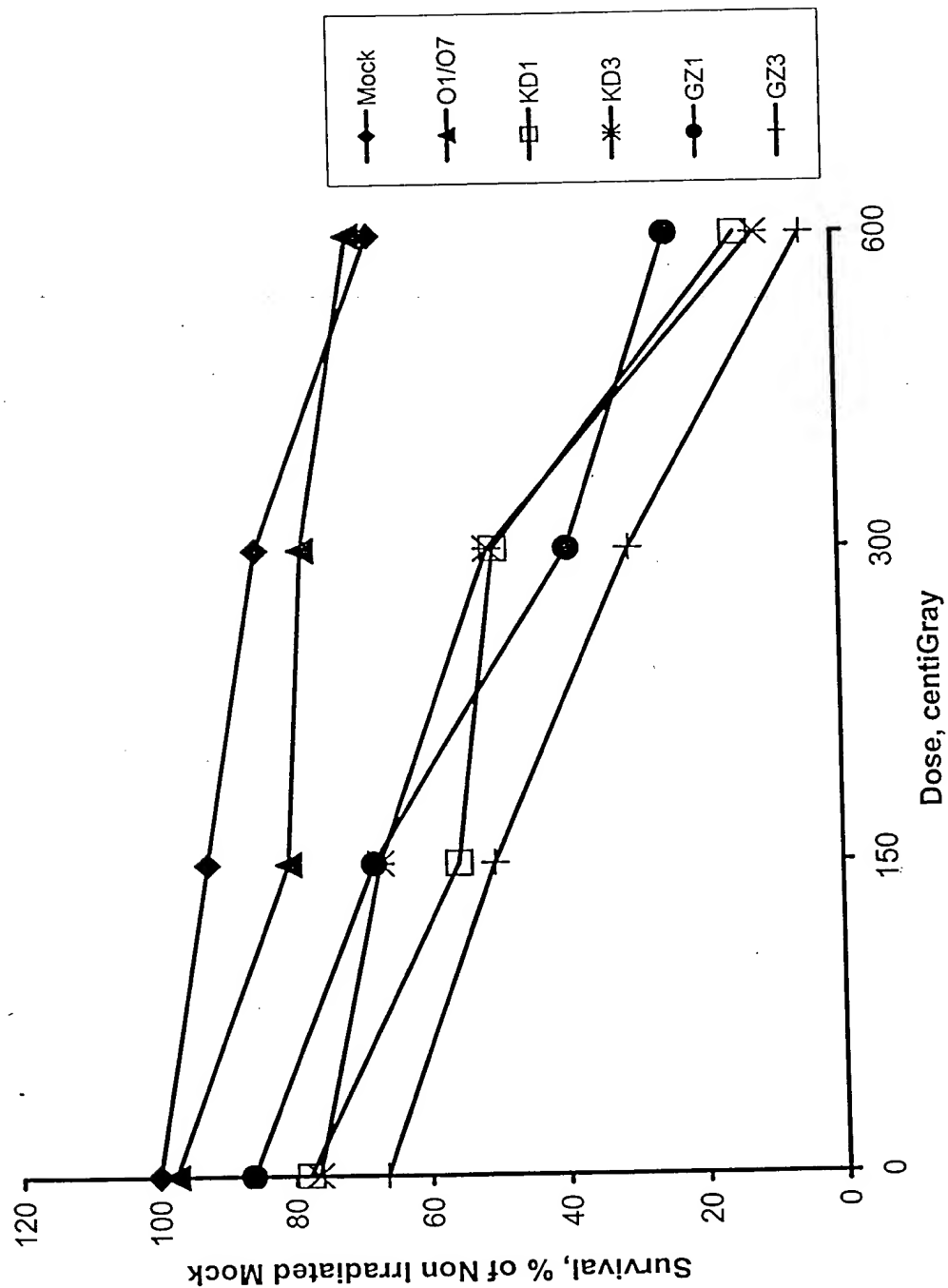


FIGURE 16

Ad2 Adenovirus Death Protein

Luminal Domain

MTGSTIAPTTDYRNTTATGLTSALNLPQVHAFVND 35

O - glycosylation *N - glycosylation*

WASLDMWWFSIALMFVCLIMWLIGCLKRRRRARPP 70

*Transmembrane
(Signal - Anchor)*

Basic - Proline

IYRPIIVLNPHNEKIHRLDGLKPCSLLLQYD 101

Cytoplasmic - Nucleoplasmic Domain

FIGURE 18A

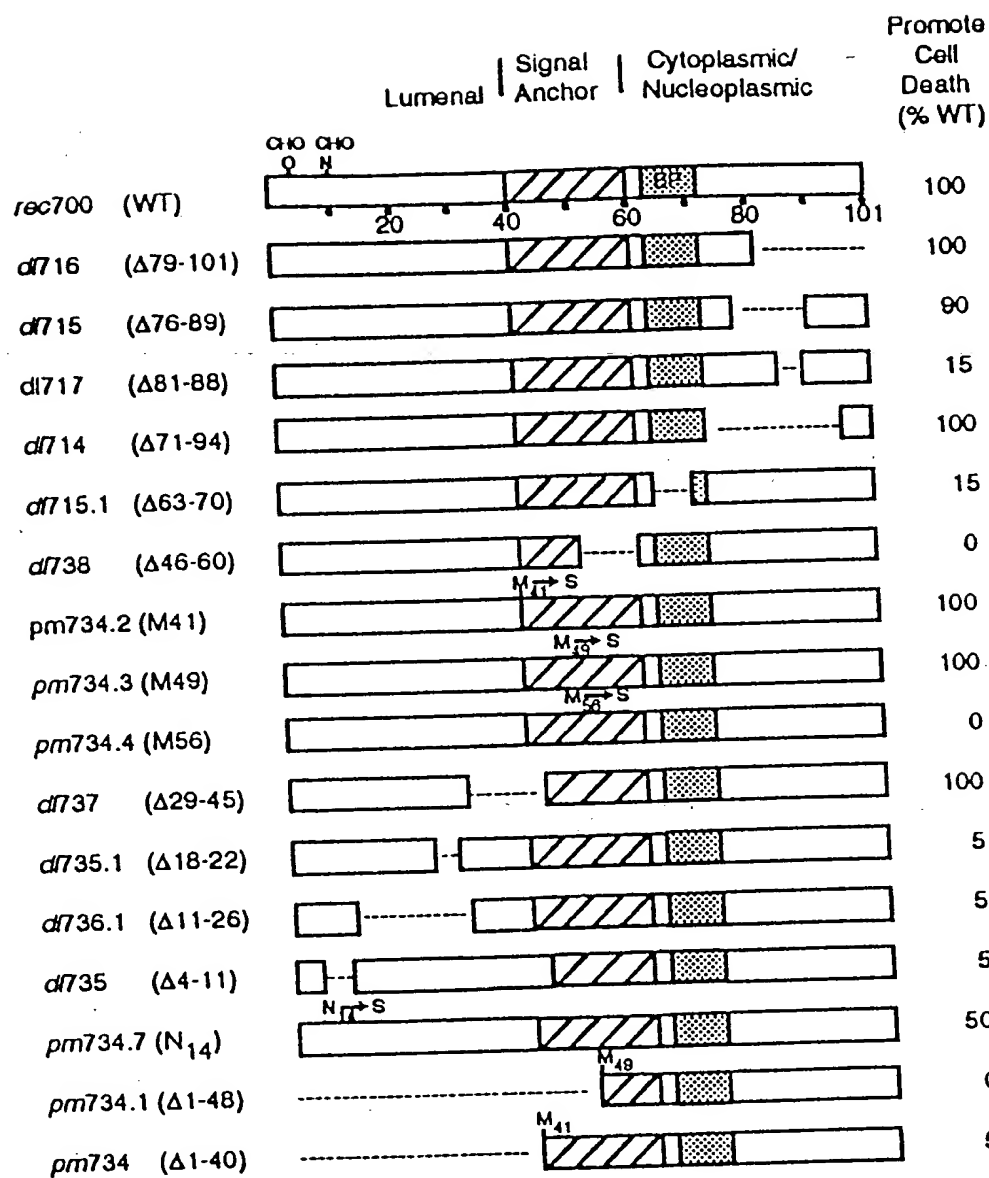


FIGURE 18B

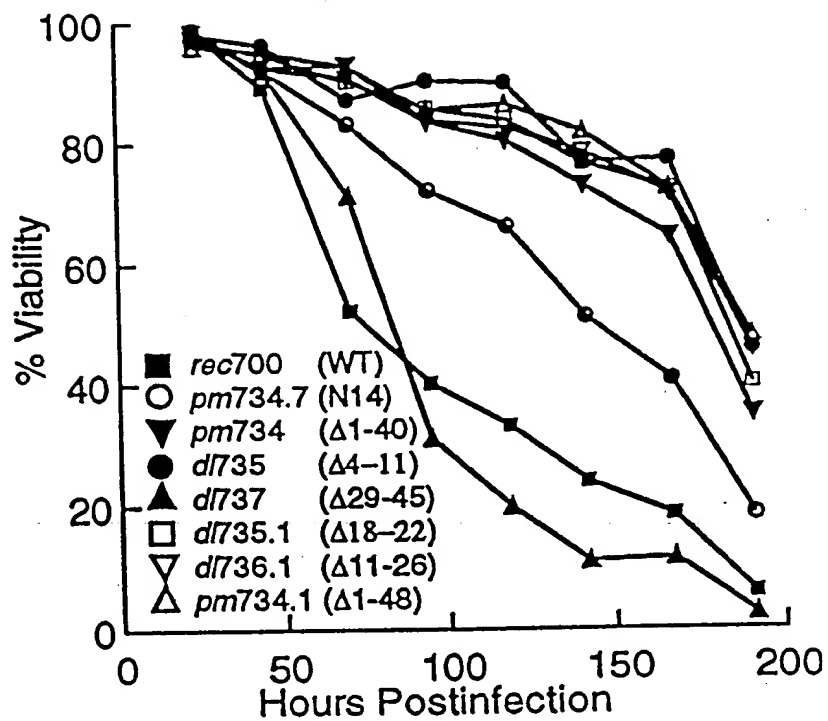


FIGURE 19A

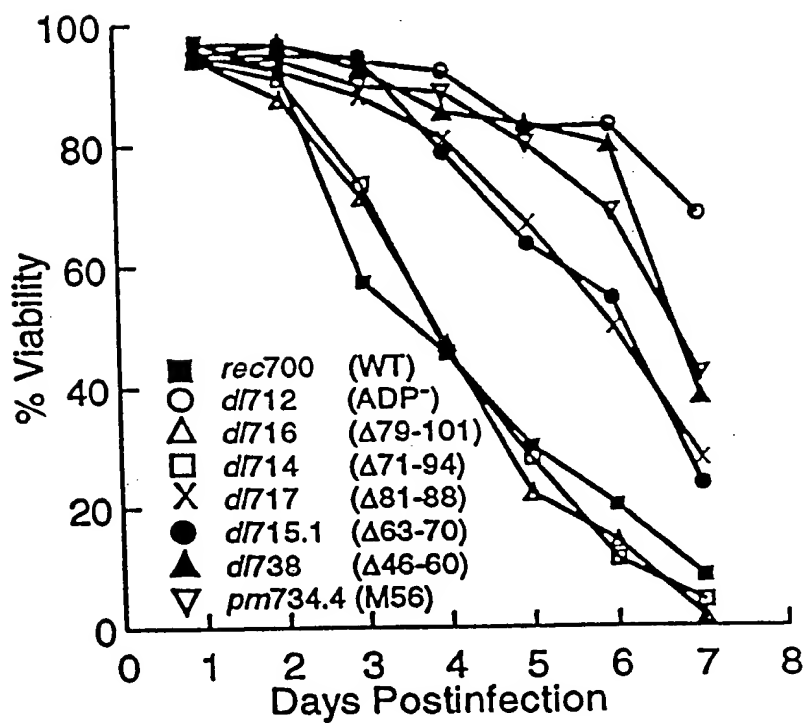


FIGURE 19B

Seq ID No.

		10	20	30	40	50
5	Ad1	-----MVDT	VNSYNTATGL	TSALNLPQVS	TFVNNWANLG	MWWFSIALMF
6	Ad2	MTGSTIAPTT	DYRNTTATGL	TSALNLPQVH	AFVNDWASLD	MWWFSIALMF
7	Ad5	-----MTN	TTNAAAATGL	TSTTNTQVS	AFVNNWDNLG	MWWFSIALMF
8	Ad6	-----MVDT	VNSYNTATGL	KSALNLPQVH	AFVNDWASLG	MWWFSIALMF
9	dl716	MTGSTIAPTT	DYRNTTATGL	TSALNLPQVH	AFVNDWASLD	MWWFSIALMF
10	dl715	MTGSTIAPTT	DYRNTTATGL	TSALNLPQVH	AFVNDWASLD	MWWFSIALMF
11	dl714	MTGSTIAPTT	DYRNTTATGL	TSALNLPQVH	AFVNDWASLD	MWWFSIALMF
12	dl737	MTGSTIAPTT	DYRNTTATGL	TSALNLPQ--	-----	-----IALMF

		60	70	80	90	100
5	Ad1	VCLIIMWLSC	CLKRKRARPP	IYKPIIVLNP	NNDGIHRLDG	LNTCSFSFAV -
6	Ad2	VCLIIMWLIC	CLKRRRARPP	IYRPIIVLNP	HNEKIHRLDG	LKPCSLLLQY D
7	Ad5	VCLIIMWLIC	CLKRKRARPP	IYSPIIVLHP	NNDGIHRLDG	LKHMFFSLTV -
8	Ad6	VCLIIMWLIC	CLKRRRARPP	IYRPIIVLNP	HNEKIHRLDG	LKPCSLLLQY D
9	dl716	VCLIIMWLIC	CLKRRRARPP	IYRPIIVL--	-----	-----
10	dl715	VCLIIMWLIC	CLKRRRARPP	IYRPI-----	-----G	LKPCSLLLQY D
11	dl714	VCLIIMWLIC	CLKRRRARPP	-----	-----	-----SLLLQY D
12	dl737	VCLIIMWLIC	CLKRRRARPP	IYRPIIVLNP	HNEKIHRLDG	LKPCSLLLQY D

Seq. ID No.

17	aa 1-40 of Ad2 ADP	MTGSTIAPTT DYRNTTATGL TSALNLPQVH AFVNDWASLD
18	aa 41-59 of Ad2 ADP	MWWFSIALMF VCLIIMWLI
19	aa 63-70 of Ad2 ADP	KRRRARPP
20	aa 60-101 of Ad2 ADP	C CLKRRRARPP IYRPIIVLNP HNEKIHRLDG LKPCSLLLQY D

FIGURE 20

095478.07.1999

LOCUS ad5 comple 35935 bp DNA
 DEFINITION ad5 complete genome
 ACCESSION ad5 comple
 KEYWORDS
 SOURCE Unknown.
 ORGANISM Unknown
 Unclassified.
 REFERENCE 1 (bases 1 to 35935)
 AUTHORS Self
 JOURNAL Unpublished.
 BASE COUNT 8367 a 10073 c 9761 g 7734 t
 ORIGIN

SYN

06-FEB-1999

1 CATCATCAAT AATATACCTT ATTTTGGATT GAAGCCAATA TGATAATGAG GGGGTGGAGT
 61 TTGTGACGTG GCGCGGGGCG TGGGAACGGG GCGGGTGACG TAGTAGTGTG GCGGAAGTGT
 121 GATGTTGCAA GTGTGGCGGA ACACATGTAA GCGACGGATG TGGCAAAAGT GACGTTTTTG
 181 GTGTGCGCCG GTGTACACAG GAAGTGACAA TTTTCGCGCG GTTTTAGGCG GATGTTGTAG
 241 TAAATTTGGG CGTAACCGAG TAAGATTGCG CCATTTTCGC GGGAAACTG AATAAGAGGA
 301 AGTGAAATCT GAATAATTTT GTGTTACTCA TAGCGCGTAA TATTTGTCTA GGGCCGCGGG
 361 GACTTTGACC GTTTACGTGG AGACTCGCCC AGGTGTTTTT CTCAGGTGTT TTCCGCGTTC
 421 CGGGTCAAAG TTGGCGTTTT ATTATTATAG TCAGCTGACG TGAGTGTAT TTATACCCGG
 481 TGAGTTCCTC AAGAGGCCAC TCTTGAGTGC CAGCGAGTAG AGTTTTCTCC TCCGAGCCGC
 541 TCCGACACCG GGAAGGAAAA TGAGACATAT TATCTGCCAC GGAGGTGTTA TTACCGAAGA
 601 AATGGCCGCC AGTCTTTTGG ACCAGCTGAT CGAAGAGGTA CTGGCTGATA ATCTTCCACC
 661 TCCTAGCCAT TTTGAACCAC CTACCCTTCA CGAAGTGTAT GATTTAGACG TGACGGCCCC
 721 CGAAGATCCC AACGAGGAGG CGGTTTCGCA GATTTTCCCG GACTCTGTAA TGTGCGCGGT
 781 GCAGGAAGGG ATTGACTTAC TCACTTTTCC GCGGCGCGCC GGTTCCTCCG AGCCGCCTCA
 841 CCTTCCCGG CAGCCCGAGC AGCCGAGCA GAGAGCCTTG GGTCCGTTTT CTATGCCAAA
 901 CCTTGTACCG GAGGTGATCG ATCTTACCTG CCACGAGGCT GGCTTTCCAC GGCACGGTTG
 961 CGAGGATGAA GAGGGTGAGG AGTTTGTGTT AGATTATGTG GAGCACCCTG GTTCGCTTTG
 1021 CAGGTCTTGT CATTATCACC GGAGGAATAC GGGGGACCCA GATATTATGT GTTCGCTTTG
 1081 CTATATGAGG ACCTGTGGCA TGTTTGTCTA CAGTAAGTGA AAATTATGGG CAGTGGGTGA
 1141 TAGAGTGGTG GGTGTTGGTG GGTAATTTTT TTTTAAATTT TTACAGTTTT GTGGTTTTAA
 1201 GAATTTTGTA TTGTGATTTT TTTAAAAGGT CCTGTGTCTG AACCTGAGCC TGAGCCCGAG
 1261 CCAGAACCGG AGCCTGCAAG ACCTACCCGC CGTCTTAAAA TGGCGCCTGC TATCCTGAGA
 1321 CGCCCCGACAT CACCTGTGTC TAGAGAATGC AATAGTAGTA CGGATAGCTG TGAACCAAGT
 1381 CCTTCTAACA CACCTCCTGA GATACACCCG GTGGTCCCGC TGTGCCCAT TAAACCAAGT
 1441 GCCGTGAGAG TTGGTGGGCG TCGCCAGGCT GTGGAATGTA TCGAGGACTT GCTTAACGAG
 1501 CCTGGGCAAC CTTTGGACTT GAGCTGTAAA CGCCCCAGGC CATAAGGTGT AAACCTGTGA
 1561 TTGCGTGTGT GGTAAACGCC TTTGTTTGCT GAATGAGTTG ATGTAAGTTT AATAAAGGGT
 1621 GAGATAATGT TTAACCTGCA TGGCGTGTTA AATGGGCGCG GGCTTAAAGG GTATATAATG
 1681 CGCCGTGGGC TAATCTTGGT TACATCTGAC CTCATGGAGG CTTGGGAGTG TTTGGAAGAT
 1741 TTTTCTGCTG TCGGTAACCT GCTGGAACAG AGCTCTAACA GTACCTCTTG GTTTTGGAGG
 1801 TTTCTGTGGG GCTCATCCCA GGCAAAGTTA GTCTGCAGAA TTAAGGAGGA TTACAAGTGG
 1861 GAATTTGAAG AGCTTTTGAA ATCCTGTGGT GAGCTGTTTG ATTCTTTGAA TCTGGGTCAC
 1921 CAGGCGCTTT TCCAAGAGAA GGTCAATCAAG ACTTTGGATT TTCCACACC GGGGCGCGCT
 1981 CGGGCTGCTG TTGCTTTTTT GAGTTTTATA AAGGATAAAT GGAGCGAAGA AACCCATCTG
 2041 AGCGGGGGGT ACCTGCTGGA TTTTCTGGCC ATGCATCTGT GGAGAGCGGT TGTGAGACAC
 2101 AAGAATCGCC TGCTACTGTT GTCTTCCGTC CGCCCGGCGA TAATACCGAC GGAGGAGCAG
 2161 CAGCAGCAGC AGGAGGAAGC CAGGCGGCGG CGGCAGGAGC AGAGCCCATG GAACCCGAGA
 2221 GCCGGCCTGG ACCCTCGGGA ATGAATGTTG TACAGGTGGC TGAAGTGTAT CCAGAACTGA
 2281 GACGCATTTT GACAATTACA GAGGATGGGC AGGGGCTAAA GGGGGTAAAG AGGGAGCGGG
 2341 GGGCTTGTGA GGCTACAGAG GAGGCTAGGA ATCTAGCTTT TAGCTTAATG ACCAGACACC
 2401 GTCCTGAGTG TATTACTTTT CAACAGATCA AGGATAATTG CGCTAATGAG CTTGATCTGC
 2461 TGGCGCAGAA GTATTCCATA GAGCAGCTGA CCACTTACTG GCTGCAGCCA GGGGATGATT
 2521 TTGAGGAGGC TATTAGGGTA TATGCAAAGG TGGCACTTAG GCCAGATTGC AAGTACAAGA
 2581 TCAGCAAACT TGTAATATC AGGAATTGTT GCTACATTTT TGGGAACGGG GCCGAGGTGG
 2641 AGATAGATAC GGAGGATAGG GTGGCCTTTA GATGTAGCAT GATAAATATG TGGCCGGGGG

FIGURE 21
 (SHEET 1)

2701 TGCTTGGCAT GGACGGGGTG GTTATTATGA ATGTAAGGTT TACTGGCCCC AATTTTAGCG
2761 GTACGGTTTT CCTGGCCAAT ACCAACCTTA TCCTACACGG TGTAAGCTTC TATGGGTTTA
2821 ACAATACCTG TGTGGAAGCC TGGACCGATG TAAGGGTTTC GGGCTGTGCC TTTTACTGCT
2881 GCTGGAAGGG GGTGGTGTGT CGCCCCAAAA GCAGGGCTTC AATTAAGAAA TGCCTCTTTG
2941 AAAGGTGTAC CTGGGTATC CTGTCTGAGG GTAACCTCAG GGTGCGCCAC AATGTGGCCT
3001 CCGACTGTGG TTGCTTCATG CTAGTGAAAA GCGTGGCTGT GATTAAGCAT AACATGGTAT
3061 GTGGCAACTG CGAGGACAGG GCCTCTCAGA TGCTGACCTG CTCGACGGC AACTGTCACC
3121 TGCTGAAGAC CATTACGTA GCCAGCCACT CTCGCAAGGC CTGGCCAGTG TTTGAGCATA
3181 ACATACTGAC CCGCTGTTCC TTGCATTTGG GTAACAGGAG GGGGGTGTTC CTACCTTACC
3241 AATGCAATTT GAGTCACACT AAGATATTGC TTGAGCCCGA GAGCATGTCC AAGGTGAACC
3301 TGAACGGGGT GTTTGACATG ACCATGAAGA TCTGGAAGGT GCTGAGGTAC GATGAGACCC
3361 GCACCAGGTG CAGACCCTGC GAGTGTGGCG GTAAACATAT TAGGAACCAG CCTGTGATGC
3421 TGGATGTGAC CGAGGAGCTG AGGCCCGATC ACTTGGTGCT GGCCTGCACC CGCGCTGAGT
3481 TTGGCTCTAG CGATGAAGAT ACAGATTGAG GTACTGAAAT GTGTGGGCGT GGCTTAAGGG
3541 TGGGAAAGAA TATATAAGGT GGGGGTCTTA TGTAAGTTTG TATCTGTTTT GCAGCAGCCG
3601 CCGCCGCCAT GAGCACC AAC TCGTTTGATG GAAGCATTGT GAGCTCATAT TTGACAACGC
3661 GCATGCCCC ATGGGCCGGG GTGCGTCAGA ATGTGATGGG CTCCAGCATT GATGGTCGCC
3721 CCGTCTCGCC CGCAACTCT ACTACCTTGA CCTACGAGAC CGTGTCTGGA ACGCCGTTGG
3781 AGACTGCAGC CTCCGCCGCC GCTTCAGCCG CTGCAGCCAC CGCCCCGCGG ATTGTGACTG
3841 ACTTTGCTTT GGCTCTTTTG GCACAATTGG ATTCTTTGAC CCGGGAACCT AATGTCGTTT
3901 ACAAGTTGAC GGTCTTTTGG CGCCAGCAGG TTTCTGCCCT GAAGGCTTCC TCCCCTCCCA
3961 CTCAGCAGCT GTTGGATCTG CGCCAGCAGG ACTCTGTTTG GATTTGGATC AAGCAAGTGT
4021 ATGCGGTTTA AAACATAAAT AAAAAACCAG ACTCTGTTTG CCGGGACCAG CGGTCTCGGT
4081 CTTGCTGTCT TTATTTAGGG GTTTTGC GCGCGTAGGC GTGACTCTGG ATGTTTCAGAT
4141 CGTTGAGGGT CCTGTGTATT TTTTCCAGGA CGTGGTAAAG GTGACTCTGG ATGTTTCAGAT
4201 ACATGGGCAT AAGCCCGTCT CTGGGGTGGG GGTAGCACCA CTGCAGAGCT TCATGCTGCG
4261 GGGTGGTGT GTAGATGATC CAGTCGTAGC AGGAGCGCTG GCGTGGTGC CTAAAAATGT
4321 CTTTCAGTAG CAAGCTGATT GCCAGGGGCA GGCCCTTGGT GTAAGTGTTT ACAAAGCGGT
4381 TAAGCTGGGA TGGGTGCATA CGTGGGGATA TGAGATGCAT CTTGGACTGT ATTTTTAGGT
4441 TGGCTATGTT CCCAGCCATA TCCCTCCGGG GATTCATGTT GTGCAGAACC ACCAGCACAG
4501 TGTATCCGGT GCACTTGGGA AATTGTTCAT GTAGCTTAGA AGGAAATGCG TGGAAGAACT
4561 TGGAGACGCC CTTGTGACCT CCAAGATTTT CCATGCATTC GTCCATAATG ATGGCAATGG
4621 GCCCACGGGC GCGCGCCTGG GCGAAGATAT TTCTGGGATC ACTAACGTCA TAGTTGTGTT
4681 CCAGGATGAG ATCGTCATAG GCCATTTTTA CAAAGCGCGG GCGGAGGGTG CCAGACTGCG
4741 GTATAATGGT TCCATCCGGC CCAGGGGCGT AGTTACCCTC ACAGATTTGC ATTTCCACG
4801 CTTTGAGTTC AGATGGGGG ATCATGTCTA CCTGCGGGG GATGAAGAAA ACGGTTTCCG
4861 GGGTAGGGGA GATCAGCTGG GAAGAAAGCA GGTTCCTGAG CAGCTGCGAC TTACCGCAGC
4921 CCGTGGGCCC GTAAATCACA CCTATTACCG GGTGCAACTG GTAGTTAAGA GAGCTGCAGC
4981 TGCCGTCATC CCTGAGCAGG GGGGCCACTT CGTTAAGCAT GTCCCTGACT CGCATGTTTT
5041 CCCTGACCAA ATCCGCCAGA AGGCGCTCGC CGCCAGCGA TAGCAGTTCT TGCAAGGAAG
5101 CAAAGTTTTT CAACGGTTTG AGACCGTCCG CCGTAGGCAT GCTTTTGAGC GTTTGACCAA
5161 GCAGTTCCAG GCGGTCCCAC AGCTCGGTCA CCTGCTCTAC GGCATCTCGA TCCAGCATAT
5221 CTCCTCGTTT CGCGGGTTGG GCGGCTTTT GCTGTACGGC AGTAGTCGGT GCTCGTCCAG
5281 ACGGGCCAGG GTCATGTCTT TCCACGGGCG CAGGGTCCCTC GTCAGCGTAG TCTGGGTCAC
5341 GGTGAAGGGG TGCGCTCCGG GCTGCGCGCT GGCCAGGGTG CGCTTCGGC AGGTAGCATT TGACCATGGT
5401 GGTGCTGAAG CGCTGCCGGT CTTCCGCCCTG CTTGGCGCGC AGCTTGCCCT TGGAGGAGGC
5461 GTCATAGTCC AGCCCCCTCCG CGGCGTGGCC CTTGGCGAGC TTGGGCGCGA GAAATACCGA
5521 GCCGCACGAG GGGCAGTGCA GACTTTTGAG GCGTAGAGC GTCTCGCATT CCACGAGCCA
5581 TTCCGGGGAG TAGGCATCCG CGCCGAGGC CCCGACAGC GTCTCGCATT CCACGAGCCA
5641 GGTGAGCTCT GGCCGTTCGG GGTCAAAAAC CAGGTTTCCC CCATGCTTTT TGATGCGTTT
5701 CTTACCTCTG GTTCCATGA GCCGGTGTCC ACGCTCGGTG ACGAAAAGGC TGTCCGTGTC
5761 CCCGTATACA GACTTGAGAG GCCTGTCTC GAGCGGTGTT CCGCGGCTCT CCTCGTATAG
5821 AAACCTCGAC CACTCTGAGA CAAAGGCTCG CGTCCAGGCC AGCACGAAGG AGGCTAAGTG
5881 GGAGGGGTAG CGGTCTGTTT CCACTAGGGG GTCCACTCGC TCCAGGGTGT GAAGACACAT
5941 GTCGCCCTCT TCGGCATCAA GGAAGGTGAT TGTTTGTAG GTGTAGGCCA CGTGACCGGG
6001 TGTTCCTGAA GGGGGGCTAT AAAAGGGGGT GGGGGCGCGT TCGTCTCCAC TCTCTCCCG
6061 ATCGCTGTCT GCGAGGGCCA GCTGTTGGGG TGAGTACTCC CTCTGAAAAG CCGGCATGAC

FIGURE 21
(SHEET 2)

6121 TTCTGCGCTA AGATTGTCAG TTTCCAAAA CGAGGAGGAT TTGATATTCA CCTGGCCCCG
6181 GGTGATGCCT TTGAGGGTGG CCGCATCCAT CTGGTCAGAA AAGACAATCT TTTTGTGTGTC
6241 AAGCTTGGTG GCAAACGACC CGTAGAGGGC GTTGGACAGC AACTTGGCGA TGGAGCGCAG
6301 GGTTTGGTTT TTGTGCGGAT CCGCGCGCTC CTTGGCCGCG ATGTTTAGCT GCACGTATTC
6361 GCGCGCAACG CACCGCCATT CCGGAAAGAC GGTGGTGCGC TCGTCGGGCA CCAGGTGCAC
6421 GCGCCAACCG CGGTTGTGCA GGGTGACAAG GTCAACGCTG GTGGCTACCT CTCCGCTAG
6481 GCGCTCGTTG GTCCAGCAGA GGCGGCCGCC CTTGCGCGAG CAGAATGGCG GTAGGGGGTTC
6541 TAGCTGCGTC TCGTCCGGGG GGTCTGCGTC CACGGTAAAG ACCCCGGGCA GCAGGCGCGC
6601 GTCGAAGTAG TCTATCTTGC ATCCTTGCAA GTCTAGCGCC TGCTGCCATG CGCGGGCGGC
6661 AAGCGCGCGC TCGTATGGGT TGAGTGGGGG ACCCATGGC ATGGGGTGGG TGAGCGCGGA
6721 GCGGTACATG CCGCAAATGT CGTAAACGTA GAGGGGCTCT CTGAGTATTC CAAGATATGT
6781 AGGGTAGCAT CTTCCACCGC GGATGCTGGC GCGCACGTAA TCGTATAGTT CGTGCGAGGG
6841 AGCGAGGAGG TCGGGACCGA GGTGCTACG GGCGGGCTGC TCTGCTCGGA AGACTATCTG
6901 CCTGAAGATG GCATGTGAGT TGGATGATAT GGTGAGCGC TGAAGACGT TGAAGCTGGC
6961 GTCTGTGAGA CCTACCGCGT CACGCACGAA GGAGGCGTAG GAGTCGCGCA GCTTGTGTGAC
7021 CAGCTCGGCG GTGACCTGCA CGTCTAGGGC GCAGTAGTCC AGGGTTTCCT TGATGATGTC
7081 ATACTTATCC TGTCCCTTTT TTTTCCACAG CTCGCGGTTG AGGACAACT CTTCGCGGTC
7141 TTTCCAGTAC TCTTGGATCG GAAACCGTCC GGCCTCCGAA CCGTAAGAGC CTAGCATGTA
7201 GAACTGGTTG ACGGCTGGT AGGCGCAGCA TCCCTTTTCT ACGGGTAGCG CGTATGCCTG
7261 CGCGGCCTTC CGGAGCGAGG TGTGGGTGAG CGCAAAGGTG TCCCTGACCA TGACTTTGAG
7321 GTACTGGTAT TTGAAGTCAG TGTGCTCGCA TCCGCCCTGC TCCAGAGCA AAAAGTCCGT
7381 GCGCTTTTGG GAACGCGGAT TTGGCAGGGC GAAGGTGACA TCGTTGAAGA GTATCTTTCC
7441 CGCGCGAGGC ATAAAGTTGC GTGTGATGCG GAAGGGTCCC GGCACCTCGG AACGGTTGTT
7501 AATTACCTGG GCGGCGAGCA CGATCTCGTC AAAGCCGTTG ATGTTGTGGC CCACAATGTA
7561 AAGTTCCAAG AAGCGCGGGA TGCCCTTGAT GGAAGGCAAT TTTTAAAGTT CCTCGTAGGT
7621 GAGCTCTTCA GGGGAGCTGA GCGGCTGCTC TGAAAGGGCC CAGTCTGCAA GATGAGGGTT
7681 GGAAGCGACG AATGAGCTCC ACAGGTCACG GGCCATTAGC ATTTGCAGGT GGTCCGGA
7741 GGTCCTAAAC TGGCGACCTA TGGCCATTTT TTCTGGGGTG ATGCAGTAGA AGGTAAGCGG
7801 GTCTTGTTC CAGCGTCCC ATCCAAGGTT CGCGGCTAGG TCTCGCGCGG CAGTCACTAG
7861 AGGCTCATCT CCGCCGAAT TCATGACCAG CATGAAGGGC ACGAGCTGCT TCCCAAAGGC
7921 CCCCATCCAA GTATAGGTCT CTACATCGTA GGTGACAAAG AGACGCTCGG TGCGAGGATG
7981 CGAGCCGATC GGAAGAAGT GGATCTCCCG CCACCAATTG GAGGAGTGGC TATTGATGTG
8041 GTGAAAGTAG AAGTCCCTGC GACGGGCCGA ACACCTGTGC TGGCTTTTGT AAAAACGTGC
8101 GCAGTACTGG CAGCGGTGCA ATTTGAGCCC CTCGCTGCGG GGGTTTGGCT GGTGGTCTTC
8161 CACAAGGAAG CAGAGTGCGA GACCGTCTGG CTGCTCGAGG GGAGTTACGG TGGATGATGAC
8221 TACTTCGGCT GCTTGTCTT GACCGTCTGG CTGCTCGAGG GGCGGTGCGA GCTTGTGATGAC
8281 CACCACGCGC CGCGAGCCCA AAGTCCAGAT GTCCGCGCGC GGCGGTGCGA GGTGAGGCGG
8341 AACATCGCGC AGATGGGAGC TGTCCATGGT CTGGAGCTCC CGCGGCTAGT CCAGGTGATA
8401 GAGCTCCTGC AGGTTTACCT CGCATAGACG GGTGAGGGCG CGGGCTAGAT CGCATCCCCG
8461 CCTAATTTCC AGGGGCTGGT TGGTGGCGCG GTGCGGCGCG GGGGTGTCTT TGGATGATGC
8521 CGGCGCGACT ACGGTACCGC GCGGCGGGCG GTGGGCCGCG GGGGTCTCCG ACCCGCCGGG
8581 ATCTAAAAGC GGTGACGCGG GCGAGCCCCC GGAGGTAGGG GGGGCTCCG CGCGCGTAGG
8641 AGAGGGGGCA GGGGCACGTC GCGGCCGCGC GCGGGCAGGA GCTGGTGCTG CGCGCGTAGG
8701 TTGCTGGCGA ACGCGACGAC GCGGCGGTTG ATCTCCTGAA TCTGGCGCCT CTGCGTGAAG
8761 ACGACGGGCC CCGTGAGCTT GAGCCTGAAA GAGAGTTCTGA CAGAATCAAT TTCGGTGTG
8821 TTGACGGCGG CCTGGCGCAA AATCTCCTGC ACGTCTCTTG AGTTGTCTTG ATAGGCGATC
8881 TCGGCCATGA ACTGCTCGAT CTCTTCTCTC TGGAGATCTC CGCGTCCGGC TCGCTCCACG
8941 GTGGCGGCGA GGTGCTTGA AATGCGGGCC CTTTCGGCAT CGCGGGCGCG CATGACCACC
9001 TCGTTCAGAG CGCGGCTGTA GACCAACGCC GTGCGGGCG AAGACGGCGT AGTTTCGCAG GCGCTGAAAG
9061 TGCGCGAGAT TGAGCTCCAC GTGCGGGCGG GCCACGAAGA AGTACATAAC CCAGCGTCCG
9121 AGGTAGTTGA GGTGTGTTCT GGTGTGTTCT GCCACGAAGA AGTACATAAC CCAGCGTCCG
9181 AACGTGGATT CGTTGATATC CCCCAGGCC TCAAGGCGCT CCATGGCCTC GTAGAAGTCC
9241 ACGGCGAAGT TGAAAACTG GGAGTTGCGC GCGGACACGG TTAACCTCTC CTCCAGAAGA
9301 CGGATGAGCT CGGCGACAGT GTCGCGCACC TCGCGCTCAA AGGCTACAGG GGCCTCTTCT
9361 TCTTCTTCAA TCTCCTCTTC CATAAGGGCC TCCCTTCTT CTTCTTCTGG CGGCGGTGGG
9421 GGAGGGGGGA CACGGCGGCG ACGACGGCGC ACCGGGAGGC GGTGACAAA GCGCTCGATC
9481 ATCTCCCCGC GCGGACGGCG CATGGTCTCG GTGACGGCGC GGCGGTCTC GCGGGGGCGC

FIGURE 21
(SHEET 3)

12961 GGGCTCCAC AGGCGACCGC GCGACCGTGT CTAGCTTGCT GACGCCCAAC TCGCGCCTGT
 13021 TGCTGCTGCT AATAGCGCCC TTCACGGACA GTGGCAGCGT GTCCCGGGAC ACATACCTAG
 13081 GTCACCTTGCT GACACTGTAC CGCGAGGCCA TAGGTCAGGC GCATGTGGAC GAGCATACTT
 13141 TCCAGGAGAT TACAAGTGTC AGCCGCGCGC TGGGGCAGGA GGACACGGGC AGCCTGGAGG
 13201 CAACCCATAA CTACCTGCTG ACCAACCAGC GGCAGAAGAT CCCCTCGTTG CACAGTTTAA
 13261 ACAGCGAGGA GGAGCGCATT TTGCGCTACG TGCAGCAGAG CGTGAGCCTT AACCTGATGC
 13321 GCGACGGGGT AACGCCACGC GTGGCGCTGG ACATGACCCG GCCTAATGGA CTACTTGCAT CGCGCGGCCG
 13381 TGTATGCCTC AAACCGGCCG TTTATCAACC GCTAATGGA TCTTGAACCC GCACTGGCTA CCGCCCCCTG
 13441 CCGTGAACCC CGAGTATTTT ACCAATGCCA TCTTGAACCC GCACTGGCTA CCGCCCCCTG
 13501 GTTTCTACAC CGGGGGGATT GAGGTGCCCG AGGGTAACGA TGGATTCTC TGGGACGACA
 13561 TAGACGACAG CGTGTTTTCC CCGCAACCGC AGACCCTGCT AGAGTTGCAA CAGCGCGAGC
 13621 AGGCAGAGGC GCGCTGCGA AAGGAAAGCT TCCGCAGGCC AAGCAGCTTG TCCGATCTAG
 13681 GCGCTGCGGC CCCGCGGTCA GATGCTAGTA GCCCATTTC AAGCTTGATA GGGTCTCTTA
 13741 CCAGCACTCG CACCACCCGC CCGCGCCTGC TGGGCGAGGA GGAGTACCTA AACAACTCGC
 13801 TGCTGCAGCC GCAGCGCGAA AAAACCTGC CTCCGGCATT TCCCAACAAC GGGATAGAGA
 13861 GCCTAGTGGA CAAGATGAGT AGATGGAAGA CGTACGCGCA GGAGCACAGG GACGTGCCAG
 13921 GCCCGCGCCC GCCCACCCTG CGTCAAAGGC ACGACCGTCA GCGGGGTCTG GTGTGGGAGG
 13981 ACGATGACTC GGCAGACGAC AGCAGCGTCC TGGATTGGG AGGGAGTGGC AACCCGTTTG
 14041 CGCACCTTCG CCCCAGGCTG GGGAGAATGT TTTAAAAAAA AAAAAGCATG ATGCAAAATA
 14101 AAAAATCAC CAAGGCCATG GCACCGAGCG TTGGTTTCT TGTATTCCCC TTAGTATGCG
 14161 GCGCGCGCGC ATGTATGAGG AAGGTCTCTC TCCCTCCTAC GAGAGTGTGG TGAGCGCGGC
 14221 CCGAGTGGCG GCGGCGCTGG GTTCTCCCTT CGATGCTCCC CTGGACCCGC CGTTTGTGCC
 14281 TCCGCGGTAC CTGCGGCTTA CCGGGGGGAG AAACAGCATC CGTACTCTG AGTTGGCACC
 14341 CCTATTCGAC ACCACCCGTG TGTACCTGGT GGACAACAAG TCAACGGATG TGGCATCCCT
 14401 GAACTACCAG AACGACCACA GCAACTTTCT GACCACGGTC ATTCAAAACA ATGACTACAG
 14461 CCCGGGGGAG GCAAGCACAC AGACCATCAA TCTTGACGAC CGGTGCGACT GGGGCGGCGA
 14521 CCTGAAAAC ATCCTGCATA CCAACATGCC AAATGTGAAC GAGTTCATGT TTACCAATAA
 14581 GTTTAAGGCG CGGGTGATGG TGTCGCGCTT GCCTACTAAG GACAATCAGG TGGAGCTGAA
 14641 ATACGAGTGG GTGGAGTTCA CGCTGCCCCG GGGCAACTAC TCCGAGACCA ACGGGGTCTT
 14701 CCTTATGAAC AACGCGATCG TGGAGCACTA CTTGAAAGTG GGCAGACAGA ACGGGGTCTT
 14761 GGAAAGCGAC ATCGGGGTAA AGTTTGACAC CCGCAACTTC AGACTGGGGT TTGACCCCGT
 14821 CACTGGTCTT GTCATGCCTG GGGTATATAC AAACGAAGCC TTCCATCCAG ACATCATTTT
 14881 GCTGCCAGGA TGCGGGGTGG ACTTCACCCA CAGCCGCTG AGCAACTTGT TGGGCATCCG
 14941 CAAGCGGCAA CCCTTCCAGG AGGGCTTTAG GATCACCTAC GATGATCTGG AGGGTGGTAA
 15001 CATTCGCCGA CTGTTGGATG TGGACGCCCTA CCAGGCGAGC TTGAAAGATG ACACCGAACA
 15061 GGGCGGGGGT GGCGCAGGCG GCAGCAACAG CAGTGGCAGC GGCGCGGAAG AGAAGCTCAA
 15121 CGCGGCAGCC GCGGCAATGC AGCCGGTGGA GGACATGAAC GATCATGCCA TTCGCGGCGA
 15181 CACCTTTGCC ACACGGGCTG AGGAGAAGCG CGCTGAGGCC GAAGCAGCGG CCGAAGCTGC
 15241 CGCCCCCGCT GCGCAACCCG AGGTCGAGAA GCCTCAGAAG AAACCGGTGA TCAAACCCCT
 15301 GACAGAGGAC AGCAAGAAAC GCAGTTACAA CCTAATAAGC AATGACAGCA CCTTCACCCA
 15361 GTACCGCAGC TGGTACCTTG CATACAACTA CCGGACCCCT CAGACCGGAA TCCGCTCATG
 15421 GACCCTGCTT TGCACTCCTG ACGTAACCTG CGGCTCGGAG CAGGTCTACT GGTGCTTGCC
 15481 AGACATGATG CAAGACCCCG TGACCTTCCG CTCCACGCGC CAGATCAGCA ACTTTCCGGT
 15541 GGTGGGCGCC GAGCTGTTGC CCGTGCACTC CAAGAGCTTC TACAACGACC AGGCCGTCTA
 15601 CTCCCAACTC ATCCGCCAGT TTACCTCTCT GACCCACGTG TTCAATCGCT TTCCCGAGAA
 15661 CCAGATTTTG GCGCGCCCGC CAGCCCCCAC CATCACACC GTCAAGTAAA ACGTTCTCTG
 15721 TCTCACAGAT CACGGGACGC TACCGCTGCG CAACAGCATC GGAGGAGTCC AGCGAGTGAC
 15781 CATTACTGAC GCCAGACGCC GCACCTGCCC CTACGTTTAC AAGGCCCTGG GCATAGTCTC
 15841 GCCGCGCGTC CTATCGAGCC GCACCTTTTG AGCAAGCATG TCCATCCTTA TATCGCCCAG
 15901 CAATAACACA GGCTGGGGCC TGCGCTTCCC AAGCAAGATG TTTGGCGGGG CCAAGAAGCG
 15961 CTCCGACCAA CACCCAGTGC GCGTGCGCGG GCACTACCGC GCGCCCTGGG GCGCGCACAA
 16021 ACGCGGCCGC ACTGGGCGCA CCACCGTCGA TGACGCCATC GACGCGGTGG TGGAGGAGGC
 16081 GCGCAACTAC ACGCCACGC CGCCACCAGT GTCCACAGTG GACGCGGCCA TTCAGACCGT
 16141 GGTGCGCGGA GCGCGGCGCT ATGCTAAAAT GAAGAGACGG CCGAGGCGCG TAGCACGTGC
 16201 CCACCGCCGC CGACCCGGCA CTGCCGCCCA ACGCGCGCGG GCGGCCCTGC TTAACCGCGC
 16261 ACGTCGCACC GGCCGACGGG CGGCCATGCG GGCCGCTCGA AGGCTGGCCG CCGGTATTGT
 16321 CACTGTGCCC CCCAGGTCCA GCGCAGGAGC GGCCGCGCA GCAGCCGCGG CCATTAGTGC

FIGURE 21
(SHEET 5)

16381	TATGACTCAG	GGTCGCAGGG	GCAACGTGTA	TGCGGTGCGC	GACTCGGTAA	GCGGCGCTGG
16441	CGTGCCCGTG	CGCACCCGCC	CCCCGCGCAA	CTAGATTGCA	AGAAAAAACT	ACTTAGACTC
16501	GTACTGTTGT	ATGTATCCAG	CGGCGGCGGC	GCGCAACGAA	GCTATGTCCA	AGCGCAAAAT
16561	CAAAGAAGAG	ATGCTCCAGG	TCATCGCGCC	GGAGATCTAT	GGCCCCCGGA	AGAAGGAAGA
16621	GCAGGATTAC	AAGCCCCGAA	AGCTAAAGCG	GGTCAAAAAAG	AAAAAGAAAG	ATGATGATGA
16681	TGAAC TTGAC	GACGAGGTGG	AAGTCTGCA	CGCTACCGCG	CCCAGCGGAC	GGGTACAGTG
16741	GAAAGGTGCA	CGCGTAAAC	ATGTTTTGCG	ACCCGCGACC	ACCGTAGTCT	TTACGCCCCG
16801	TGAGCGCTCC	ACCCGACCT	ACAAGCGCGT	GTATGATGAG	GTGTACGGCG	ACGAGGACCT
16861	GCTTGAGCAG	GCCAACGAGC	GCCTCGGGGA	GTTTGCTTAC	GGAAGCGCGC	ATAAGGACAT
16921	GCTGGCGTTG	CCGCTGGACG	AGGGCAACCC	AACACCTAGC	CTAAAGCCCC	TAACACTGCA
16981	GCAGGTGCTG	CCCGCGCTTG	CACCGTCCGA	AGAAAAGCGC	GGCCTAAAGC	GCGAGTCTGG
17041	TGACTTGGCA	CCCACCGTGC	AGCTGATGGT	ACCCAAGCGC	CAGCGACTGG	AAGATGTCTT
17101	GGAAAAAATG	ACCGTGGAAC	CTGGGCTGGA	GCCCCGAGGTC	CGCGTGCGGC	CAATCAAGCA
17161	GGTGGCGCCG	GGACTGGGCG	TGCAGACCGT	GGACGTTTCA	ATACCCACTA	CCAGTAGCAC
17221	CAGTATTGCC	ACCGCCACAG	AGGGCATGGA	GACACAAACG	TCCCCGGTTG	CCTCAGCGGT
17281	GGCGGATGCC	CGGGTGCAGG	CGGTCGCTGC	GGCCGCGTCC	AAGACCTCTA	CGAGGTGCA
17341	AACGGACCCG	TGGATGTTTC	GCGTTTCAGC	CCCCCGGCGC	CCGCGCGGTT	CGAGGAAGTA
17401	CGGCGCCGCC	AGCGCGCTAC	TGCCCCGAATA	TGCCCTACAT	CCTTCCATTG	CGCCTACCCC
17461	CGGCTATCGT	GGCTACACCT	ACCGCCCCAG	AAGACGAGCA	ACTACCCGAC	GCCGAACCAC
17521	CACTGGAACC	CGCCGCGCGC	GTCGCGCTCG	CCAGCCCCGTG	CTGGCCCCGA	TTTCCGTGCG
17581	CAGGGTGGCT	CGCGAAGGAG	GCAGGACCTT	GGTGCTGCCA	ACAGCGCGCT	ACCACCCAG
17641	CATCGTTTAA	AAGCCGCTCT	TTGTGTTTCT	TGCAGATATG	GCCCTCACCT	GCCGCCCTCG
17701	TTTCCCCGGT	CCGGGATTCC	GAGGAAGAAT	GCACCGTAGG	AGGGGCGATG	CCGGCCACGG
17761	CCTGACGGCG	GGCATGCGTC	GTGCGCACCA	CCGGCGGCGG	CGCGCGTTCG	ACCGTCGCAT
17821	GCGCGGCGGT	ATCCTGCCCC	TCCTTATTTCC	ACTGATCGCC	GCGGCGATTG	GCGCCGTGCC
17881	CGGAATTGCA	TCCGTGGCCT	TGCAGGCGCA	GAGACTCTGA	TTAAAAACAA	GTTGCATGTG
17941	GAAAAATCAA	AATAAAAAGT	CTGGACTCTC	ACGCTCGCTT	GGTCTGTAA	CTATTTTGTA
18001	GAATGGAAGA	CATCAACTTT	GCGTCTCTGG	CCCCGCGACA	CGGCTCGCGC	CCGTTTCATG
18061	GAAACTGGCA	AGATATCGGC	ACCAGCAATA	TGAGCGGTGG	CGCTTTCAGC	TGGGGCTCGC
18121	TGTGGAGCGG	CATTAATAAT	TTGCGTTCCA	CCGTTAAGAA	CTATGGCAGC	AAGGCTGGA
18181	ACAGCAGCAC	AGGCCAGATG	CTGAGGGATA	AGTTGAAAGA	GCAAAATTTT	CAACAAAAAG
18241	TGGTAGATTG	CCTGGCCTCT	GGCATTAGCG	GGGTGGTGGA	CTGGGCCAAC	CAGGCAGTGC
18301	AAAATAAGAT	TAACAGTAAG	CTTGATCCCC	GCCCTCCCGT	AGAGGAGCCT	CCACCGGCCG
18361	TGGAGACAGT	GTCTCCAGAG	GGGCGTGGCG	AAAAGCGTCC	GCGCCCCGAC	AGGGAAGAAA
18421	CTCTGGTGAC	GCAAATAGAC	GAGCCTCCCT	CGTACGAGGA	GGCACTAAAG	CAAGGCCTGC
18481	CCACCACCCG	TCCCCATCGC	CCCATTGGCTA	CCGGAGTGCT	GGGCCAGCAC	ACACCCGTAA
18541	CGCTGGACCT	GCCTCCCCCC	GCCGACACCC	AGCAGAAACC	TGTGCTGCCA	GGCCCCAGCG
18601	CCGTTGTTGT	AACCCGTCCT	AGCCGCGCGT	CCCTGCGCCG	CGCCGCCAGC	GGTCCGCGAT
18661	CGTTGCGGCC	CGTAGCCAGT	GGCAACTGGC	AAAGCACACT	GAACAGCATC	GTGGGTCTGG
18721	GGGTGCAATC	CCTGAAGCGC	CGACGATGCT	TCTGAATAGC	TAACGTGTCT	TATGTGTGTC
18781	ATGTATGCGT	CCATGTCGCC	GCCAGAGGAG	CTGCTGAGCC	GCCGCGCGCC	CGCTTTCCAA
18841	GATGGCTACC	CCTTCGATGA	TGCCGCGAGT	GTCTTACATG	CACATCTCGG	GCCAGGACGC
18901	CTCGGAGTAC	CTGAGCCCCG	GGTGTGTGCA	GTTTGCCCGC	GCCACCGAGA	CGTACTTACG
18961	CCTGAATAAC	AAGTTTAGAA	ACCCACGGT	GGCGCCTACG	CACGACGTGA	CCACAGACCG
19021	GTCCACGCGT	TTGACGCTGC	GGTTCATCCC	TGTGGACCGT	GAGGATACTG	CGTACTCGTA
19081	CAAGGCGCGG	TTACCCCTAG	CTGTGGGTGA	TAACCGTGTG	CTGGACATGG	CTTCCACGTA
19141	CTTTGACATC	CGCGGCGTGC	TGGACAGGGG	CCCTACTTTT	AAGCCCTACT	CTGGCACTGC
19201	CTACAACGCC	CTGGCTCCCA	AGGGTGCCCC	AAATCTTTGC	GAATGGGATG	AAGCTGCTAC
19261	TGCTCTTGAA	ATAAACCTAG	AAGAAGAGGA	CGATGACAAC	GAAGACGAAG	TAGACGAGCA
19321	AGCTGAGCAG	CAAAAACTC	ACGTATTTGG	GCAGGCGCCT	TATTCTGGTA	TAAATATTAC
19381	AAAGGAGGGT	ATTCAAATAG	GAGAATCTCA	GTGGTACGAA	ACTGAAATTA	ATCATGACAG
19441	TCAA'CTGAA	CCTCAAATAG	CTACCCCAAT	GAAACCATGT	TACGGTTTCT	ATGCAAAAACC
19501	TGGGAGAGTC	CTTAAAAAGA	CTACCCCAAT	TGTAAAGCAA	CAAAATGGAA	AGCTAGAAAG
19561	CACAAATGAA	AATGGAGGGC	AAGGCATTCT	TGAGGCGACC	CAGGCAATG	GTGATAACTT
19621	TCAAAGTGAA	ATGCAATTTT	TCTCAACTAC	TGT		

19801 GCCCAACAGG CCTAATTACA TTGCTTTTAG GGACAATTTT ATTGGTCTAA TGTATTACAA
19861 CAGCACGGGT AATATGGGTG TTCTGGCGGG CCAAGCATCG CAGTTGAATG CTGTTGTAGA
19921 TTTGCAAGAC AGAAACACAG AGCTTTCATA CCAGCTTTTG CTTGATTCCA TTGGTGATAG
19981 AACCAGGTAC TTTTCTATGT GGAATCAGGC TGTTGACAGC TATGATCCAG ATGTTAGAAAT
20041 TATTGAAAAT CATGGAACGT AAGATGAACT TCCAAATTAC TGCTTTCCAC TGGGAGGTGT
20101 GATTAATACA GAGACTCTTA CCAAGGTAAA ACCTAAAACA GGTCAGGAAA ATGGATGGGA
20161 AAAAGATGCT ACAGAATTTT CAGATAAAAA TGAAATAAGA GTTGGAATAA ATTTTGCCAT
20221 GGAAATCAAT CTAAATGCCA ACCTGTGGAG AAATTCCTG TACTCCAACA TAGCGCTGTA
20281 TTGCCCCGAC AAGCTAAAGT ACAGTCCTTC CAACGTAAAA ATTTCTGATA ACCCAAACAC
20341 CTACGACTAC ATGAACAAGC GAGTGGTGGC TCCCGGGTTA GTGGACTGCT ACATTAACCT
20401 TGGAGCACGC TGGTCCCTTG ACTATATGGA CAACGTCAAC CCATTTAACC ACCACCGCAA
20461 TGCTGGCCTG CGCTACCGCT CAATGTTGCT GGGCAATGGT CGCTATGTGC CCTTCCACAT
20521 CCAGGTGCCT CAGAAGTCT TTGCCATTAA AAACCTCCTT CTCCTGCCGG GCTCATACAC
20581 CTACGAGTGG AACTTCAGGA AGGATGTTAA CATGGTCTG CAGAGCTCCC TAGGAAATGA
20641 CCTAAGGGTT GACGGAGCCA GCATTAAAGT TGATAGCATT TGCCTTTACG CCACCTTCTT
20701 CCCCATGGCC CACAACACCG CCTCCACGCT TGAGGCCATG CTTAGAAACG ACACCAACGA
20761 CCAGTCCTTT AACGACTATC TCTCCGCCCG CAACATGCTC TACCCTATAC CCGCCAACGC
20821 TACCAACGTG CCCATATCCA TCCCCCTCCG CAACTGGGCG GCTTTCCGCG GCTGGGCCTT
20881 CACGCGCCTT AAGACTAAGG AAACCCCATC ACTGGGCTCG GGCTACGACC CTTATTACAC
20941 CTACTCTGGC TCTATACCCT ACCTAGATGG AACCTTTTAC CTCAACCACA CCTTTAAGAA
21001 GGTGGCCATT ACCTTTGACT CTTCTGTGAG CTGGCCTGGC AATGACCGCC TGCTATCCCC
21061 CAACGAGTTT GAAATTAAGC GCTCAGTTGA CGGGGAGGGT TACAACGTTG CCCAGTGTA
21121 CATGACCAAA GACTGGTTCC TGGTACAAAT GCTAGCTAAC TACAACATTG GCTACCAGGG
21181 CTTCTATATC CCAGAGAGCT ACAAGGACCG CATGTACTCC TTCTTTTAGAA ACTTCCAGCC
21241 CATGAGCCGT CAGGTGGTGG ATGATACTAA ATACAAGGAC TACCAACAGG TGGGCATCCT
21301 ACACCAACAC AACAACCTCT GATTTGTTGG CTACCTTGCC CCCACCATGC GCGAAGGACA
21361 GGCCTACCCT GCTAACTTCC CCTATCCGCT TATAGGCAAG ACCGCAGTTG ACAGCATTAC
21421 CCAGAAAAAG TTTCTTTGCG ATCGCACCCCT TTGGCGCATC CCATTCTCCA GTAACTTTAT
21481 GTCCATGGGG GCACTACAG ACCTGGGCCA AAACCTTCTC TACGCCAAT CCGCCCACGC
21541 GCTAGACATG ACTTTTGAGG TGGATCCCAT GGACGAGCCC ACCCTTCTTT ATGTTTTGTT
21601 TGAAGTCTTT GACGTGGTCC GTGTGCACCG GCCGCACCGC GGCGTCATCG AAACCGTGTA
21661 CCTGCGCACG CCCTTCTCGG CCGGCAACGC CACAACATAA AGAAGCAAGC AACATCAACA
21721 ACAGCTGCCG CCATGGGCTC CAGTGAGCAG GAACTGAAAG CCATTGTCAA AGATCTTGGT
21781 TGTGGGCCAT ATTTTGTGGG CACCTATGAC AAGCGCTTTC CAGGCTTGT TTCTCCACAC
21841 AAGCTCGCCT GCGCCATAGT CAATACGGCC GGTGCGGAGA CTGGGGGCGT ACATCTTGTG
21901 GCCTTTGCCT GGAACCCGCA CTCAAAAACA TGCTACCTCT TTGAGCCCTT TGGCTTTTCT
21961 GACCAGCGAC TCAAGCAGGT TTACCAGTTT GAGTACGAGT CACTCCTGCG CCGTAGCGCC
22021 ATTGCTTCTT CCCCCGACCG CTGTATAACG CTGGAAAAGT CCACCCAAAG CGTACAGGGG
22081 CCCAACTCGG CCGCCTGTGG ACTATTCTGC TGCATGTTTC TCCACGCCTT TGCCAACCTG
22141 CCCCAACTC CCATGGATCA CAACCCACCC CTGCGTCGCA ACCAGGAACA GCTCTACAGC
22201 ATGCTCAACA GTCCCCAGGT ACAGCCACCC CTGCGTCGCA ACCAGGAACA GCTCTACAGC
22261 TTCCTGGAGC GCCACTCGCC CTACTTCCGC AGCCACAGTG CGCAGATTAG GAGCGCCACT
22321 TCTTTTGTG ACTTGAAAAA CATGTAAAAA TAATGTACTA GAGACACTTT CAATAAAGGC
22381 AAATGCTTTT ATTTGTACAC TCTCGGGTGA TTATTTACCC CCACCTTGC CGTCTGCGCC
22441 GTTTAAAAAT CAAAGGGGTT CTGCCGCGCA TCGCTATGCG CCACTGGCAG GGACACGTTG
22501 CGATACTGGT GTTTAGTGCT CCACCTAAAC TCAGGCACAA CCATCCGCGG CAGCTCGGTG
22561 AAGTTTTTAC TCCACAGGCT GCGCACCATC ACCAACGCGT TTAGCAGGTC GGGCGCCGAT
22621 ATCTTGAAGT CGCAGTTGGG GCCTCCGCCC TGCAGCGTGG CCAGCACGCT CTTGTCGGAG
22681 CAGCACTGGA ACACTATCAG CGCCGGGTGG CTCAGGGCGA ACGGAGTCAA CTTTGGTAGC
22741 ATCAGATCCG CGTCCAGGTC CTCCGCGTTG TTTGAGTTGC ACTCGACCG TAGTGGCATC
22801 TGCCTTCCCA AAAAGGGCGC GTGGCGTTA GGATACAGCG CCTGCATAAA AGCCTTGATC
22861 AAAAGGTGAC CGTGCCCGGT CTGGGCGTTA GCATACAGCG CCTGCATAAA AGCCTTGATC
22921 TGCTTAAAG CCACCTGAGC CTTTGCGCCT TCAGAGAAGA ACATGCCGCA AGACTTGGCG
22981 GAAAACCTGAT TGGCCGGACA GGCCGCGTGC TGCACGCAGC ACCTTGCGTC GGTGTTGGAG
23041 ATCTGCACCA CATTTCCGCC CCACCGGTTC TTCACGATCT TGGCCTTGCT AGACTGCTCC
23101 TTCAGCGCG GCTGCCCGTT TTCGCTCGTC ACATCCATTT CAATCACGTG CTCCTTATTT
23161 ATCATAATGC TTCCGTGTAG AACTTAAGC TCGCCTTCGA TCTCAGCGCA GCGGTGACG

FIGURE 21
(SHEET 7)

23221 CACAACGCGC AGCCCGTGGG CTCGTGATGC TTGTAGGTCA CCTCTGCAAA CGACTGCAGG
 23281 TACGCCTGCA GGAATCGCCC CATCATCGTC ACAAAGGTCT TGTTGCTGGT GAAGGTTCAGC
 23341 TGCAACCCGC GGTGCTCCTC GTTCAGCCAG GTCTTGCCATA CGGCCGCCAG AGCTTCCACT
 23401 TGGTCAGGCA GTAGTTTGAA GTTCGCCTTT AGATCGTTAT CCACGTGGTA CTGTGCCATC
 23461 AGCGCGCGCG CAGCCTCCAT GCCCTTCTCC CACGCAGACA CGATCGGCAC ACTCAGCGGG
 23521 TTCATCACCG TAATTTCACT TTCCGCTTCG CTGGGCTCTT CCTCTTCCTC TTGCGTCCGC
 23581 ATACCACGCG CCACTGGGTC GTCTTCATTC AGCCGCCGCA CTGTGCGCTT ACCTCCTTTG
 23641 CCATGCTTGA TTAGCACCGG TGGGTTGCTG AAACCCACCA TTTGTAGCGC CACATCTTCT
 23701 CTTTCTTCCT CGCTGTCCAC GATTACCTCT GGTGATGGCG GCGGCTCGGG CTTGGGAGAA
 23761 GGGCGCTTCT TTTTCTTCTT GGGCGCAATG GCCAAATCCG CCGCCGAGGT CGATGGCCCG
 23821 GGGCTGGGTG TGCGCGGCAC CAGCGCTCT TGTGATGAGT CTTCTCTGTC CTCGGACTCG
 23881 ATACGCCGCC TCATCCGCTT TTTTGGGGGC GCCCGGGAG GCGGCGGCGA CCGGGACGGG
 23941 GACGACACGT CCTCCATGGT TGGGGGACGT CGCGCCGCAC CGCGTCCGCG CTCGGGGGTG
 24001 GTTTCGCGCT GCTCCTCTTC CCGACTGGCC ATTTCTTCTT CCTATAGGCA GAAAAAGATC
 24061 ATGGAGTCAG TCGAGAAGAA GGACAGCCTA ACCGCCCTCT CTGAGTTCGC CACCACCGCC
 24121 TCCACCGATG CCGCCAACGC GCCTACCACC TTCCCGTCTG AGGCACCCCC GCTTGAGGAG
 24181 GAGGAAGTGA TTATCGAGCA GGACCCAGGT TTTGTAAGCG AAGACGACGA GGACCGCTCA
 24241 GTACCAACAG AGGATAAAAA GCAAGACAG GACAACGCAG AGGCAAACGA GGAACAAGTC
 24301 GGGCGGGGGG ACGAAAGGCA TGCGGACTAC CTAGATGTGG GAGACGACGT GCTGTTGAAG
 24361 CATCTGCAGC GCCAGTGCAG CATTATCTGC GACGCGTTGC AAGAGCGCAG CGATGTGCC
 24421 CTCGCCATAG CGGATGTCAG CCTTGCCTAC GAACGCCACC TATTCTCACC CGCGTACCC
 24481 CCCAAACGCG AAGAAAACGG CACATGCGAG CCCAACCCGC GCCTCAACTT CTACCCCGTA
 24541 TTTGCCGTGC CAGAGGTGCT TGCCACCTAT CACATCTTTT TCCAAACTG CAAGATACCC
 24601 CTATCCTGCC GTGCCAACCG CAGCCGAGCG GACAAGCAGC TGGCCTTGCG GCAGGGCGCT
 24661 GTCATACCTG ATATCGCCTC GCTCAACGAA GTGCCAAAAA TCTTTGAGGG TCTTGACGC
 24721 GACGAGAAGC GCGCGGCAAA GGGTGACAAC GCGCGCCTAG CCGTACTAAA ACGCAGCATC
 24781 GGAGTGTTGG TGGAACTCGA ACTTTGCCTA CCCGGCACTT AACCTACCCC CCAAGGTCAT GAGCACGTC
 24841 GAGGTCAACC TGATCGTGCG CCGTGCGCAG CCCCTGGAGA GGGATGCAAA TTTGCAAGAA
 24901 ATGAGTGAGC TGATCGTGCG CCGTGCGCAG CCCCTGGAGA GGGATGCAAA TTTGCAAGAA
 24961 CAAACAGAGG AGGGCTACC CGCAGTGAGC AAACCTAATGA TGGCCGCGT GCTCGTTACC
 25021 CGCGAGCCTG CCGACTTGGA GGAGCGACGC AAACCTAATGA TGGCCGCGT GCTCGTTACC
 25081 GTGGAGCTTG AGTGCATGCA GCGGTTCTTT TACGTACGCC AGGCCTGCAA GATCTCCAAC
 25141 GAAACATTGC ACTACACCTT TCGACAGGGC GGAATTTTGC ACAGAAACCG CTTGGGCAA
 25201 GTGGAGCTCT GCAACCTGGT CTCCTACCTT GGAATTTTGC ACTACGTCG CGACTGCGTT
 25261 AACGTGCTTC ATTCCACGCT CAAGGGCGAG GCGCGCCGCG ACTACGTCG CGACTGCGTT
 25321 TACTTATTTT TATGCTACAC CTGGCAGACG GCCATGGGCG TTTGGCAGCA GTGCTTGGAG
 25381 GAGTGCAACC TCAAGGAGCT GCAGAACTG CTAAAGCAAA ACTTGAAGGA CCTATGGACG
 25441 GCCTTCAACG AGCGCTCCGT GGCCGCGCAC CTGGCGGACA TCATTTTCCC CGAACGCCTG
 25501 CTTAAAACCC TGCAACAGGG TCTGCCAGAC TTCACCAATC AAAGCATGTT GCAGAACTTT
 25561 AGGAACCTTA TCCTAGAGCG CTCAGGAATC TTGCCCGCCA CCGTGTGTC ACTTCCTAGC
 25621 GACTTTGTGC CCATTAAGTA CCGCGAATGC CCTCCGCCG TTTGGGGCCA CTGCTACCTT
 25681 CTGCAGCTAG CCAACTACCT TGCCTACCAC TCTGACATAA TGGAAGACGT GAGCGGTGAC
 25741 GGTCTACTGG AGTGTCACTG TCGCTGCAAC CTATGCACCC CGCACCGCTC CTTGGTTTGC
 25801 AATTGCGAGC TGCTTAACGA AAGTCAAATT ATCGGTACCT TTGAGCTGCA GGGTCCCTCG
 25861 CCTGACGAAA AGTCCGCGGC TCCGGGGTTG AAACCTACTC CCGGGCTGTG GACGTCGGCT
 25921 TACCTTCGCA AATTGTGACC TGAGGACTAC CACGCCACG AGATTAGGTT CTACGAAGAC
 25981 CAATCCCGCC CGCCAAATGC GGAGCTTACC GCCTGCGTCA TTACCCAGGG CCACATTCTT
 26041 GGCCAATTGC AAGCCATCAA CAAAGCCCGC CAAGAGTTTC TGCTACGAAA GGGACGGGGG
 26101 GTTTACTTGG ACCCCAGTC CCGCGAGGAG CTCAACCCAA TCCCCCGCC GCCGCAGCCC
 26161 TATCAGCAGC AGCCGCGGGC CCTTGCTTCC CAGGATGGCA CCCAAAAAGA AGCTGACGT
 26221 GCGCGCGCCA CCCACGGACG AGGAGGAATA CTGGGACAGT CAGGACAGAG AGGTTTGGGA
 26281 CGAGGAGGAG GAGGACATGA TGGAAGACTG GGAGAGCCTA GACGAGGAAG CTTCCGAGGT
 26341 CGAAGAGGTG TCAGACGAAA CACCGTCACC CTCGGTTCGCA TTCCCTCGC CGGCGCCCA
 26401 GAAATCGGCA ACCGGTTCCA GCATGGCTAC AACCTCCGCT CCTCAGGCGC CGCCGGCACT
 26461 GCGCGTTTCG CGACCCAACC GTAGATGGGA CACCACTGGA ACCAGGGCCG GTAAGTCAA
 26521 GCAGCCGCCG CCGTTAGCCC AAGAGCAACA ACAGCGCAA GGCTACCGCT CATGGCGCGG
 26581 GCACAAGAAC GCCATAGTTG CTTGCTTGCA AGACTGTGGG GGCAACATCT CCTTCGCCCC

FIGURE 21
(SHEET 8)

26641	CCGCTTTCTT	CTCTACCATC	ACGGCGTGGC	CTTCCCCCGT	AACATCCTGC	ATTACTACCG
26701	TCATCTCTAC	AGCCCATACT	GCACGGCGG	CAGCGGCAGC	GGCAGCAACA	GCAGCGGCCA
26761	CACAGAAGCA	AAGGCGACCG	GATAGCAAGA	CTCTGACAAA	GCCCCAAGAA	TCCACAGCGG
26821	CGGCAGCAGC	AGGAGGAGGA	GCGCTGCGTC	TGGCGCCCCA	CGAACCCGTA	TCGACCCCGG
26881	AGCTTAGAAA	CAGGATTTTT	CCCACCTGTG	ATGTCTATAT	TCAACAGAGC	AGGGGCCAAG
26941	AACAAGAGCT	GAAAAATAAA	AACAGGTCTC	TGCGATCCCT	CACCCGCAGC	TGCCTGTATC
27001	ACAAAAGCGA	AGATCAGCTT	CGGCGCACGC	TGGAAGACGC	GGAGGCTCTC	TTCAGTAAAT
27061	ACTGCGCGCT	GACTCTTAAG	GACTAGTTTC	GCGCCCTTTC	TCAAATTTAA	CGCGAAAAAC
27121	TACGTCTACT	CCAGCGGCCA	CACCCGGCGC	CAGCACCTGT	CGTCAGCGCC	ATTATGAGCA
27181	AGGAAATTCC	CACGCCCTAC	ATGTGGAGTT	ACCAGCCACA	AATGGGACTT	GCGGCTGGAG
27241	CTGCCCAAGA	CTACTCAACC	CGAATAAACT	ACATGAGCGC	GGGACCCAC	ATGATATCCC
27301	GGGTCAACGG	AATCCGCGCC	CACCGAAACC	GAATTCTCTT	GGAACAGGCG	GCTATTACCA
27361	CCACACCTCG	TAATAACCTT	AATCCCGGTA	GTTGGCCCGC	TGCCCTGGTG	TACCAGGAAA
27421	GTCCCGCTCC	CACCACTGTG	GTACTTCCCA	GAGACGCCCA	GGCCGAAGTT	CAGATGACTA
27481	ACTCAGGGGC	GCAGCTTGGC	GGCGGCTTTC	GTCACAGGGT	GCGGTCGCCC	GGGCGAGGTA
27541	TAACCTACCT	GACAATCAGA	GGGCGAGGTA	TTCAGCTCAA	CGACGAGTCG	GTGAGCTCCT
27601	CGCTTGGTCT	CCGTCCGGAC	GGGACATTTT	AGATCGGCGG	CGCCGGCCGT	CCTTCATTCA
27661	CGCCTCGTCA	GGCAATCCTA	ACTCTGCAGA	CCTCGTCTCT	TGAGCCGCGC	TCTGGAGGCA
27721	TTGGAATCTT	GCAATTTATT	GAGGAGTTTG	TGCCATCGGT	CTACTTTAAC	CCCTTCTCGG
27781	GACCTCCCGG	CCACTATCCG	GATCAATTTA	TTCTTAACCT	TGACGCGGTA	AAGGACTCGG
27841	CGGACGGCTA	CGACTGAATG	TTAAGTGGAG	AGGCAGAGCA	ACTGCGCCTG	AAACACCTGG
27901	TCCACTGTCT	CCGCCACAAG	TGCTTTGCCC	GCGACTCCGG	TGAGTTTTCG	TACTTTGAAT
27961	TGCCCAGGAG	TCATATCGAG	GGCCCGGCGC	ACGGCGTCCG	GCTTACCGCC	CAGGGAGAGC
28021	TTGCCCGTAG	CCTGATTCGG	GAGTTTACCC	AGCGCCCCCT	GCTAGTTGAG	CGGGACAGGG
28081	GACCCGTGTG	TCTCACTGTG	ATTGCAAACT	GTCTTAACCT	TGGATTACAT	CAAGATCTTT
28141	GTTGCCATCT	CTGTGCTGAG	TATAATAAAT	ACAGAAATTA	AAATATACTG	GGGCTCCTAT
28201	CGCCATCCTG	TAAACGCCAC	CGTCTTCACC	CGCCCAAGCA	AACCAAGGCG	AACCTTACCT
28261	GGTACTTTTT	ACATCTCTCC	CTCTGTGATT	TACAACAGTT	TCAACCCAGA	CGGAGTGAGT
28321	CTACGAGAGA	ACCTCTCCGA	GCTCAGCTAC	TCCATCAGAA	AAAACACCAC	CCTCCTTACC
28381	TGCCGGGAAC	GTACGAGTGC	GTCACCGGCC	GCTGCACCAC	ACCTACCGCC	TGACCGTAAA
28441	CCAGACTTTT	TCCGGACAGA	CCTCAATAAC	TCTGTTTACC	AGAACAGGAG	GTGAGCTTAG
28501	AAAACCCCTA	GGGTATTAGG	CCAAAGGCGC	AGCTACTGTG	GGGTTTATGA	ACAATTCAAG
28561	CAACTCTACG	GGCTATTCTA	ATTGAGGTTT	CTCTAGAATC	GGGGTTGGGG	TTATTCTCTG
28621	TCTTGTGATT	CTCTTTATTC	TTATACTAAC	GCTTCTCTGC	CTAAGGCTCG	CCGCCTGCTG
28681	TGTGCACATT	TGCATTTATT	GTCAGCTTTT	TAAACGCTGG	GGTCGCCACC	CAAGATGATT
28741	AGGTACATAA	TCCTAGGTTT	ACTCACCTTT	GCGTCAGCCC	ACGGTACCAC	CCAAAAGGTG
28801	GATTTTAAGG	AGCCAGCCTG	TAATGTTACA	TTCGCAGCTG	AAGCTAATGA	GTGCACCATT
28861	CTTATAAAAT	GCACCACAGA	ACATGAAAAG	CTGCTTATTC	GCCACAAAAA	CAAAATTGGC
28921	AAGTATGCTG	TTTATGCTAT	TTGGCAGCCA	GGTGACACTA	CAGAGTATAA	GGTTACAGTT
28981	TTCCAGGGTA	AAAGTCATAA	AACTTTTATG	TATACTTTTC	CATTTTATGA	AATGTGCGAC
29041	ATTACCATGT	ACATGAGCAA	ACAGTATAAG	TTGTGGCCCC	CACAAAATTG	TGTGAAAAAC
29101	ACTGGCACTT	TCTGCTGCAC	TGCTATGCTA	ATTACAGTGC	TCGCTTTGGT	CTGTACCCTA
29161	CTCTATATTA	AATACAAAAG	CAGACGCGAG	TTTATTGAGG	AAAAGAAAAT	GCCTTAATTT
29221	ACTAAGTTAC	AAAGCTAATG	TCACCATAA	CTGCTTTACT	CGCTGCTTGC	AAAACAAATT
29281	CAAAAAGTTA	GCATTATAAT	TAGAATAGGA	TTTAAACCCC	CCGGTCATTT	CCTGCTCAAT
29341	ACCATTCCCC	TGAACAATTG	ACTCTATGTG	GGATATGCTC	CAGCGCTACA	ACCTTGAAGT
29401	CAGGCTTCCT	GGATGTCAGC	ATCTGACTTT	GGCCAGCACC	TGTCGCCGCG	ATTTGTTCCA
29461	GTCCAACTAC	AGCGACCCAC	CCTAACAGAG	ATGACCAACA	CAACCAACGC	GGCCGCCGCT
29521	ACCGGACTTA	CATCTACCAC	AAATACACCC	CAAGTTTCTG	CCTTTGTCAA	TAAGTGGGAT
29581	AACTTGGGCA	TGTGGTGGTT	CTCCATAGCG	CTTATGTTTG	TATGCCTTAT	TATTATGTGG
29641	CTCATCTGCT	GCCTAAAGCG	CAACAGCGCC	CGACCACCCA	TCTATAGTCC	CATCATTGTG
29701	CTACACCCAA	ACAATGATGG	AATCCATAGA	TTGGACGGAC	TGAAACACAT	GTTCTTTTCT
29761	CTTACAGTAT	GATTAAATGA	GACATGATTC	CTCGAGTTT	TATATTACTG	ACCTTGTGTT
29821	CGCTTTTTTG	TGCGTGCTCC	ACATTGGCTG	CGGTTTCTCA	CATCGAAGTA	GACTGCATT
29881	CAGCCTTCAC	AGTCTATTTG	CTTTACGGAT	TTGTACCCCT	CACGCTCATC	T

30061	TATGAAATTT	ACTGTGACTT	TTCTGCTGAT	TATTTGCACC	CTATCTGCGT	TTTGTTCCCC
30121	GACCTCCAAG	CCTCAAAGAC	ATATATCATG	CAGATTCACT	CGTATATGGA	ATATTCCAAG
30181	TTGCTACAAT	GAAAAAAGCG	ATCTTTCCGA	AGCCTGGTTA	TATGCAATCA	TCTCTGTTAT
30241	GGTGTCTGCG	AGTACCATCT	TAGCCCTAGC	TATATATCCC	TACCTTGACA	TTGGCTGGAA
30301	ACGAATAGAT	GCCATGAACC	ACCCAACTTT	CCCCGCGCCC	GCTATGCTTC	CACCTGCAACA
30361	AGTTGTTGCC	GGCGGCTTTG	TCCCAGCCAA	TCAGCCTCGC	CCCACCTCTC	CCACCCCCAC
30421	TGAAATCAGC	TACTTTAATC	TAACAGGAGG	AGATGACTGA	CACCCTAGAT	CTAGAAATGG
30481	ACGGAATTAT	TACAGAGCAG	CGCCTGCTAG	AAAGACGCAG	GGCAGCGGCC	GAGCAACAGC
30541	GCATGAATCA	AGAGCTCCAA	GACATGGTTA	ACTTGCACCA	GTGCAAAAGG	GGTATCTTTT
30601	GTCTGGTAAA	GCAGGCCAAA	GTCACCTACG	ACAGTAATAC	CACCGGACAC	CGCCTTAGCT
30661	ACAAGTTGCC	AACCAAGCGT	CAGAAATTGG	TGGTCAATGG	GGGAGAAAAG	CCCATTACCA
30721	TAACCTAGCA	CTCGGTAGAA	ACCGAAGGCT	GCATTCACTC	ACCTTGTCAA	GGACCTGAGG
30781	ATCTCTGCAC	CCTTATTAAG	ACCCTGTGCG	GTCTCAAAGA	TCTTATTCCC	TTTAACTAAT
30841	AAAAAAAAAT	AATAAAGCAT	CACCTACTTA	AAATCAGTTA	GCAAAATTTCT	GTCCAGTTTA
30901	TTCAGCAGCA	CTCCTTGCC	CTCCTCCCAG	CTCTGGTATT	GCAGCTTCCT	CCTGGCTGCA
30961	AACTTTCTCC	ACAATCTAAA	TGGAATGTCA	GTTCCTCCTT	GTTCCTGTCC	ATCCGACCCC
31021	ACTTACTTCA	TGTTGTTGCA	GATGAAGCGC	GCAAGACCGT	CTGAAGATAC	CTTCAACCCC
31081	GTGTATCCAT	ATGACACGGA	AACCGGTCCT	CCAACGTGTC	CTTTTCTTAC	TCCTCCCTTT
31141	GTATCCCCCA	ATGGGTTTCA	AGAGAGTCCC	CCTGGGGTAC	TCTCTTTGCG	CCTATCCGAA
31201	CCTCTAGTTA	CCTCCAATGG	CATGCTTGCG	CTCAAAATGG	GCAACGGCCT	CTCTCTGGAC
31261	GAGGCCGGCA	ACCTTACCTC	CAAAAATGTA	ACCAGTGTGA	GCCCACCTCT	CAAAAAAACC
31321	AAGTCAAACA	TAAACCTGGA	AATATCTGCA	CCCCTCACAG	TTACCTCAGA	AGCCCTAATC
31381	GTGGCTGCCG	CCGCACTCTT	AATGGTCGCG	GGCAACACAC	TCACCATGCA	ATCACAGGCC
31441	CGGCTAACCG	TGCACGACTC	CAAACCTTAGC	ATTGCCACCC	AAGGACCCCT	CACAGTGTCA
31501	GAGGAAAAGC	TAGCCCTGCA	AACATCAGGC	CCCCTCACCA	CCACCGATAG	CAGTACCCTT
31561	ACTATCACTG	CCTCACCCCC	TCTAACTACT	GCCACTGGTA	GCTTGGGCAT	TGACTTGAAA
31621	GAGCCCATT	ATACACAAAA	TGGAAAACTA	GGACTAAAGT	ACGGGGCTCC	TTTGCATGTA
31681	ACAGACGACC	TAAACACTTT	GACCGTAGCA	ACTGGTCCAG	GTGTGACTAT	TAATAATACT
31741	TCCTTGCAAA	CTAAAGTTAC	TGGAGCCTTG	GGTTTTGATT	CACAAGGCAA	TATGCAACTT
31801	AATGTAGCAG	GAGGACTAAG	GATTGATTCT	CAAAACAGAC	GCCTTATACT	TGATGTTAGT
31861	TATCCGTTTG	ATGCTCAAAA	CCAACATAAT	CTAAGACTAG	GACAGGGCCC	TCCTTTTATA
31921	AACTCAGCCC	ACAACCTGGA	TATTAACCTA	AACAAAGGCC	TTTACTTGTT	TACAGCTTCA
31981	AAACAATTCCA	AAAAGCTTGA	GGTTAACCTA	AGCACTGCCA	AGGGGTTGAT	GTTTGACGCT
32041	ACAGCCATAG	CCATTAATGC	AGGAGATGGG	CTTGAATTTG	GTTACCTTAA	TGCACCAAAC
32101	ACAAATCCCC	TCAAAACAAA	AATTGGCCAT	GGCCTAGAAT	TTGATTCAAA	CAAGGCTATG
32161	GTTCCTAAAC	TAGGAACCTG	CCTTAGTTTT	GACAGCACAG	GTGCCATTAC	AGTAGGAAAC
32221	AAAAATAATG	ATAAGCTAAG	TTTGTGGACC	ACACCAGCTC	CATCTCCTAA	CTGTAGACTA
32281	AATGCAGAGA	AAGATGCTAA	ACTCACTTTG	GTCTTAACAA	AATGTGGCAG	TCAAATACTT
32341	GCTACAGTTT	CAGTTTTGGC	TGTTAAAGGC	AGTTTGGCTC	CAATATCTGG	AACAGTTCAA
32401	AGTGCTCATC	TTATTATAAG	ATTTGACGAA	AATGGAGTGC	TACTAAACAA	TTCTTCTCTG
32461	GACCCAGAAT	ATTGGAACCT	TAGAAATGGA	GATCTTACTG	AAGGCACAGC	CTATACAAAC
32521	GCTGTTGGAT	TTATGCCTAA	CCTATCAGCT	TATCCAAAAT	CTCACGGTAA	AACTGCCAAA
32581	AGTAACATTG	TCAGTCAAGT	TTACTTAAAC	GGAGACAAAA	CTAAACCTGT	AACACTAACC
32641	ATTACACTAA	ACGGTACACA	GGAAACAGGA	GACACAACCTC	CAAGTGCATA	CTCTATGTCA
32701	TTTTTCATGG	ACTGGTCTGG	CCACAACCTAC	ATTAATGAAA	TATTTGCCAC	ATCCTCTTAC
32761	ACTTTTTTCAT	ACATTGCCCA	AGAATAAAGA	ATCGTTTGTG	TTATGTTTCA	ACGTGTTTAT
32821	TTTTTCAATTG	CAGAAAATTT	CAAGTCATTT	TTCATTCACT	AGTATAGCCC	CACCACCACA
32881	TAGCTTATAC	AGATCACCGT	ACCTTAATCA	AACCTACAGA	ACCCTAGTAT	TCAACCTGCC
32941	ACCTCCCTCC	CAACACACAG	AGTACACAGT	CCTTCTCCTC	CGGCTGGCCT	TAAAAAGCAT
33001	CATATCATGG	GTAACAGACA	TATTTCTAGG	TGTTATATTC	CACACGGTTT	CCTGTGCGAG
33061	CAAACGCTCA	TCAGTGATAT	TAATAAATCT	CCCAGGCAGC	TCACTTAAGT	TCATGTGCGT
33121	GTCCAGCTGC	TGAGCCACAG	GCTGCTGTCC	AACTTGCGGT	TGCTTAACCG	GCGGCGAAGG
33181	AGAAGTCCAC	GCCTACATGG	GGGTAGAGTC	ATAATCGTGC	ATCAGGATAG	GGCGTGGTGT
33241	GTCAGCAGC	GCGCGAATAA	ACTGCTGCCG	CCGCCGCTCC	GTCTTCGAGG	AATACAACAT
33301	GGCAGTGGTC	TCCTCAGCGA	TGATTGCGAC	CGCCCGCAGC	ATAAGGCGCC	TTGTCTCTCCG

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33481 AGAACCCACG TGGCCATCAT ACCACAAGCG CAGGTAGATT AAGTGGCGAC CCCTCATAAA
33541 CACGCTGGAC ATAAACATTA CCTCTTTTGG CATGTTGTAA TTCACCACCT CCCGGTACCA
33601 TATAAACCTC TGATTAAACA TGGCGCCATC CACCACCATC CTAAACCAGC TGGCCAAAAC
33661 CTGCCC GCCG GCTATACACT GCAGGGAACC GGGACTGGAA CAATGACAGT GGAGAGCCCA
33721 GGA CTGTA CCATGGATCA TCATGCTCGT CATGATATCA ATGTTGGCAC AACACAGGCA
33781 CACGTGCATA CACTTCCTCA GGATTACAAG CTCCTCCCGC GTTAGAACCA TATCCCAGGG
33841 AACAACCCAT TCCTGAATCA GCGTAAATCC CACACTGCAG GGAAGACCTC GCACGTAAC
33901 CACGTTGTGC ATTGTCAAAG TGTTACATTC GGGCAGCAGC GGATGATCCT CCAGTATGGT
33961 AGCGCGGGTT TCTGTCTCAA AAGGAGGTAG ACGATCCCTA CTGTACGGAG TGCGCCGAGA
34021 CAACCGAGAT CGTGTGGTGC GTAGTGTCTAT GCCAAATGGA ACGCCGGACG TAGTCATATT
34081 TCCTGAAGCA AAACCAGGTG CGGGCGTGAC AAACAGATCT GCGTCTCCGG TCTCGCCGCT
34141 TAGATCGCTC TGTGTAGTAG TTGTAGTATA TCCACTCTCT CAAAGCATCC AGGCGCCCCC
34201 TGGCTTCGGG TTCTATGTAA ACTCCTTCAT GCGCCGCTGC CCTGATAACA TCCACCACCG
34261 CAGAATAAGC CACACCCAGC CAACCTACAC ATTGCTTCTG CGAGTCACAC ACGGGAGGAG
34321 CGGGAAGAGC TGAAGAACC ATGTTTTTTT TTTTATTCCA AAAGATTATC CAAAACCTCA
34381 AAATGAAGAT CTATTAAGTG AACGCGCTCC CCTCCGGTGG CGTGGTCAA CTCTACAGCC
34441 AAAGAACAGA TAATGGCATT TGTAAGATGT TGCACAATGG CTTCCAAAAG GCAAACGGCC
34501 CTCACGTCCA AGTGGACGTA AAGGCTAAAC CCTTCAGGGT GAATCTCCTC TATAACATT
34561 CCAGCACCTT CAACCATGCC CAAATAATTC TCATCTCGCC ACCTTCTCAA TATATCTCTA
34621 AGCAAATCCC GAATATTAAG TCCGGCCATT GTAAAAATCT GCTCCAGAGC GCCCTCCACC
34681 TTCAGCCTCA AGCAGCGAAT CATGATTGCA AAAATTCAGG TTCCTCACAG CCTGTATAA
34741 GATTCAAAAAG CGGAACATTA ACAAAAATAC CGCGATCCCG TAGGTCCCTT CCGAGGGCCA
34801 GCTGAACATA ATCGTGCAGG TCTGCACGGA CCAGCGCGGC CACTTCCCGG CCAGGAACCT
34861 TGACAAAAGA ACCCACACTG ATTATGACAC GCATACTCGG AGCTATGCTA ACCAGCGTAG
34921 CCCCAGTGTA AGCTTTGTTG CATGGGCGGC GATATAAAT GCAAGGTGCT GCTCAAAAAA
34981 TCAGGCAAAG CCTCGCGCAA AAAAGAAAAG ACATCGTAGT CATGCTCATG CAGATAAAGG
35041 CAGGTAAGCT CCGGAACCAC CACAGAAAAA GACACCATT TTTCTCTCAA CATGTCTGCG
35101 GGTTTCTGCA TAAACACAAA ATAAAATAAC AAAAAACAT TTAAACATTA GAAGCCTGTC
35161 TTACAACAGG AAAACAACC CTTATAAGCA TAAGACGGAC TACGGCCATG CCGGCGTGAC
35221 CGTAAAAAAT CTGGTCACCG TGATTAAAAA GCACCACCGA CAGCTCCTCG GTCATGTCCG
35281 GAGTCATAAT GTAAGACTCG GTAAACACAT CAGGTTGATT CATCGGTCAG TGCTAAAAAG
35341 CGACCGAAAT AGCCCGGGGG AATACATACC CGCAGGCGTA GAGACAACAT TACAGCCCCC
35401 ATAGGAGGTA TAACAAAATT AATAGGAGAG AAAAAACACAT AAACACCTGA AAAACCTCC
35461 TGCCTAGGCA AAATAGCACC CTCCCGCTCC AGAACAACAT ACAGCGCTTC ACAGCGGCAG
35521 CCTAACAGTC AGCCTTACCA GTAAAAAAGA AAACCTATTA AAAAAACACC ACTCGACACG
35581 GCACCAGCTC AATCAGTCAC AGTGTAAGAA AGGGCCAAGT GCAGAGCGAG TATATATAGG
35641 ACTAAAAAAT GACGTAACGG TTAAAGTCCA CAAAAACAC CCAGAAAACC GCACGCGAAC
35701 CTACGCCCAG AAACGAAAGC CAAAAACCC ACAACTTCCT CAAATCGTCA CTTCCGTTTT
35761 CCCACGTTAC GTAACCTCCC ATTTTAAAGAA AACTACAATT CCCAACACAT ACAAGTTACT
35821 CCGCCCTAAA ACCTACGTCA CCCGCCCCGT TCCCACGCC CGCGCCACGT CACAACTCC
35881 ACCCCCTCAT TATCATATTG GCTTCAATCC AAAATAAGGT ATATTATTGA TGATG

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FIGURE 21
(SHEET 11)

LOCUS KD1 33592 bp DNA SYN 28-APR-1999

DEFINITION KD1

ACCESSION KD1

KEYWORDS .

SOURCE Unknown.

ORGANISM Unknown

REFERENCE 1 (bases 1 to 33592)

AUTHORS Self

JOURNAL Unpublished.

FEATURES Location/Qualifiers

CDS 1..33592

/gene="KD1"

/product="KD1"

BASE COUNT 7744 a 9470 c 9285 g 7093 t

ORIGIN

1 CATCATCAAT AATATACCTT ATTTTGGATT GAAGCCAATA TGATAATGAG GGGGTGGAGT

61 TTGTGACGTG GCGCGGGGCG TGGGAACGGG GCGGGTGACG TAGTAGTGTG GCGGAAGTGT

121 GATGTTGCAA GTGTGGCGGA ACACATGTAA GCGACGGATG TGGCAAAAGT GACGTTTTTG

181 GTGTGCGCCG GTGTACACAG GAAGTGACAA TTTTCGCGCG GTTTTAGGCG GATGTTGTAG

241 TAAATTTGGG CGTAACCGAG TAAGATTTGG CCATTTTCGC GGGAAAAGT AATAAGAGGA

301 AGTGAAATCT GAATAATTTT GTGTTACTCA TAGCGCGTAA TATTGTCTA GGGCCGCGGG

361 GACTTTGACC GTTTACGTGG AGACTCGCCC AGGTGTTTTT CTCAGGTGTT TTCCGCGTTC

421 CGGGTCAAAG TTGGCGTTTT ATTATTATAG TCAGCTGACG TGTAAGTGTAT TTATACCCGG

481 TGAGTTCCTC AAGAGGCCAC TCTTGAGTGC CAGCGAGTAG AGTTTTCTCC TCCGAGCCGC

541 TCCGACACCG GGAAGGAAAA TGAGACATGA GGTACTGGCT GATAATCTTC CACCTCCTAG

601 CCATTTTGAA CCACCTACCC TTCACGAACT GTATGATTTA GACGTGACGG CCCCCGAAGA

661 TCCCAACGAG GAGGCGGTTT CGCAGATTTT TCCCGACTCT GTAATGTTGG CGGTGCAGGA

721 AGGGATTGAC TTACTCACTT TTCCGCCGGC GCGCGGTTCT CCGGAGCCGC CTCACCTTTC

781 CCGGCAGCCC GAGCAGCCGG AGCAGAGAGC CTTGGGTCCG GTTTGCCACG AGGCTGGCTT

841 TCCACCCAGT GACGACGAGG ATGAAGAGGG TGAGGAGTTT GTGTTAGATT ATGTGGAGCA

901 CCGCGGCAC GGTGCGAGGT CTTGTCATTA TCACCGGAGG AATACGGGGG ACCCAGATAT

961 TATGTGTTTC CTTTGCTATA TGAGGACCTG TGGCATGTTT GTCTACAGTA AGTGAAAATT

1021 ATGGGCAGTG GGTGATAGAG TGGTGGGTTT GGTGTGGTAA TTTTTTTTTT AATTTTTTACA

1081 GTTTTGTTGGT TTAAAGAATT TTGTATTGTG ATTTTTTTAA AAGGTCCTGT GTCTGAACCT

1141 GAGCCTGAGC CCGAGCCAGA ACCGGAGCCT GCAAGACCTA CCCGCCGTCC TAAAGTGGCG

1201 CCTGCTATCC TGAGACGCCC GACATCACCT GTGTCTAGAG AATGCAATAG TAGTACGGAT

1261 AGCTGTGACT CCGGTCCTTC TAACACACCT CCTGAGATAC ACCCGGTGGT CCCGCTGTGC

1321 CCCATTAAAC CAGTTGCCGT GAGAGTTGGT GGGCGTCCGC AGGCTGTGGA ATGTATCGAG

1381 GACTTGCTTA ACGAGCCTGG GCAACCTTTG GACTTGAGCT GTAAACGCCC CAGGCCATAA

1441 GGTGTAAACC TGTGATTGCG TGTGTGTTA ACGCCTTTGT TTGCTGAATG AGTTGATGTA

1501 AGTTTAATAA AGGGTGAGAT AATGTTTAAC TTGCATGGCG TGTTAAATGG GGCGGGGCTT

1561 AAAGGGTATA TAATGCGCCG TGGGCTAATC TTGGTTACAT CTGACCTCAT GGAGGCTTGG

1621 GAGTGTTTGG AAGATTTTTC TGCTGTGCGT AACTTGCTGG AACAGAGCTC TAACAGTACC

1681 TCTTGTTTTC GGAGGTTTCT GTGGGGCTCA TCCCAGGCAA AGTTAGTCTG CAGAATTAAG

1741 GAGGATTACA AGTGGAATT TGAAGAGCTT TTGAAATCCT TGGAAGGTCA TCAAGACTTT GGATTTTTCC

1801 TTGAATCTGG GTCACCAGGC GCTTTTCCAA GAGAAGGTCA TTATAAGGA TAAATGGAGC

1861 ACACCGGGGC GCGCTGCGGC TGCTGTTGCT TTTTGAGTT TTATAGGGA TAAATGGAGC

1921 GAAGAAACCC ATCTGAGCGG GGGGTACCTG CTGGATTTTC TGGCCATGCA TCTGTGGAGA

1981 GCGGTTGTGA GACACAAGAA TCGCCTGCTA CTGTTGTCTT CCGTCCGCCC GGCGATAATA

2041 CCGACGGAGG AGCAGCAGCA GCAGCAGGAG GAAGCCAGGC GGCGGCGGCA GGAGCAGAGC

2101 CCATGGAACC CGAGAGCCGG CCTGGACCCT CCGGAATGAA TGTGTACAG GTGCTGAAC

2161 TGTATCCAGA ACTGAGACGC ATTTTGACAA TTACAGAGGA TAGGAATCTA GCTTTTAGCT

2221 TAAAGAGGGA GCGGGGGGCT TGTGAGGCTA CAGAGGAGGC TAGGAATCTA GCTTTTAGCT

2281 TAATGACCAG ACACCGTCTT GAGTGTATTA CTTTCAACA GATCAAGGAT AATTGCGCTA

2341 ATGAGCTTGA TCTGCTGGCG CAGAAGTATT CCATAGAGCA GCTGACCACT TACTGGCTGC

2401 AGCCAGGGGA TGATTTTGAG GAGGCTATTA GGGTATATGC AAAGGTGGCA CTTAGGCCAG

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FIGURE 22
(SHEET 1)

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2461 ATTGCAAGTA CAAGATCAGC AAACCTTGTA ATATCAGGAA TTGTTGCTAC ATTTCTGGGA
2521 ACGGGGCCGA GGTGGAGATA GATACGGAGG ATAGGGTGGC CTTTAGATGT AGCATGATAA
2581 ATATGTGGCC GGGGGTGCTT GGCATGGACG GGGTGGTTAT TATGAATGTA AGGTTTACTG
2641 GCCCAATTT TAGCGGTACG GTTTTCCTGG CCAATACCAA CCTTATCCTA CACGGTGTA
2701 GCTTCTATGG GTTTAACAAT ACCTGTGTGG AAGCCTGGAC CGATGTAAGG GTTCGGGGCT
2761 GTGCCTTTTA CTGCTGCTGG AAGGGGGTGG TGTGTCGCCC CAAAAGCAGG GCTTCAATTA
2821 AGAAATGCCT CTTTGAAAGG TGTACCTTGG GTATCCTGTC TGAGGGTAAC TCCAGGGTGC
2881 GCCACAATGT GGCCTCCGAC TGTGGTTGCT TCATGCTAGT GAAAAGCGTG GCTGTGATTA
2941 AGCATAACAT GGTATGTGGC AACTGCGAGG ACAGGGCCTC TCAGATGCTG ACCTGCTCGG
3001 ACGGCAACTG TCACCTGCTG AAGACCATTC ACGTAGCCAG CCACTCTCGC AAGGCCTGGC
3061 CAGTGTTTGA GCATAACATA CTGACCCGCT GTTCCTTGCA TTTGGGTAAC AGGAGGGGGG
3121 TGTTCTTACC TTACCAATGC AATTTGAGTC AACTAAGAT ATTGCTTGAG CCCGAGAGCA
3181 TGTCCAAGGT GAACCTGAAC GGGGTGTTTG ACATGACCAT GAAGATCTGG AAGGTGCTGA
3241 GGTACGATGA GACCCGCACC AGGTGCAGAC CCTGCGAGTG TGGCGGTAAA CATATTAGGA
3301 ACCAGCCTGT GATGCTGGAT GTGACCGAGG AGCTGAGGCC CGATCACTTG GTGCTGGCCT
3361 GCACCCGCGC TGAGTTTGGC TCTAGCGATG AAGATAACAGA TTGAGGTACT GAAATGTGTG
3421 GCGGTGGCTT AAGGGTGGGA AAGAATATAT AAGGTGGGGG TCTTATGTAG TTTTGTATCT
3481 GTTTTGACAG AGCCGCCGCC GCCATGAGCA CCAACTCGTT TGATGGAAGC ATTGTGAGCT
3541 CATATTTGAC AACCGCGCATG CCCCCATGGG CCGGGGTGCG TCAGAATGTG ATGGGCTCCA
3601 GCATTGATGG TCGCCCCGTC CTGCCCCGAA ACTCTACTAC CTTGACCTAC GAGACCGTGT
3661 CTGGAACGCC GTTGGAGACT GCAGCCTCCG CCGCCGCTTC AGCCGCTGCA GCCACCGCCC
3721 GCGGGATTGT GACTGACTTT GCTTTCCTGA GCCCGCTTGC AAGCAGTGCA GCTTCCCGTT
3781 CATCCGCCCG CGATGACAAG TTGACGGCTC TTTTGGCACA ATTGGATTCT TTGACCCGGG
3841 AACTTAATGT CGTTTCTCAG CAGCTGTTGG ATCTGCGCCA GCAGGTTTCT GCCCTGAAGG
3901 CTTCTCTCCC TCCCAATGCG GTTTAAACA TAAATAAAAA ACCAGACTCT GTTTGGATTT
3961 GGATCAAGCA AGTGTCTTGC TGTCTTTATT TAGGGGTTTT GCGCGCGCGG TAGGCCCGGG
4021 ACCAGCGGTC TCGGTCGTTG AGGGTCTGT GTATTTTTTC CAGGACGTGG TAAAGGTGAC
4081 TCTGGATGTT CAGATACATG GGCATAAGCC CGTCTCTGGG GTGGAGGTAG CACCACTGCA
4141 GAGCTTCATG CTGCGGGGTG GTGTTGTAGA TGATCCAGTC GTAGCAGGAG CGCTGGGCGT
4201 GGTGCCTAAA AATGTCTTTC AGTAGCAAGC TGATTGCCAG GGGCAGGCCC TTGGTGTAAAG
4261 TTTTACAAA GCGGTTAAGC TGGGATGGGT GCATACGTGG GGATATGAGA TGCATCTTGG
4321 ACTGTATTTT TAGGTTGGCT ATGTTCCCAG CCATATCCCT CCGGGGATTC ATGTTGTGCA
4381 GAACCACCAG CACAGTGTAT CCGGTGCACT TGGGAAATTT GTCATGTAGC TTAGAAGGAA
4441 ATGCGTGGA GAACTTGGAG ACGCCTTGT GACCTCCAAG ATTTTCCATG CATTTCGTCCA
4501 TAATGATGGC AATGGGCCCA CCGGCGCGCG CCTGGGCGAA GATATTTCTG GGATACTAA
4561 CGTCATAGTT GTGTTCCAGG ATGAGATCGT CATAGGCCAT TTTTACAAAG CGCGGGCGGA
4621 GGGTGCCAGA CTGCGGTATA ATGGTTCCAT CCGGCCAGG GCGGTAGTTA CCCTCACAGA
4681 TTTGCATTTT CCACGCTTTG AGTTCAGATG GGGGGATCAT GTCTACCTGC GGGGCGATGA
4741 AGAAAACGGT TTCCGGGGTA GGGGAGATCA GCTGGGAAGA AAGCAGGTTT CTGAGCAGCT
4801 GCGACTTACC GCAGCCGGTG GGCCCGTAAA TCACACCTAT TACCGGGTGC AACTGGTAGT
4861 TAAGAGAGCT GCAGCTGCCG TCATCCCTGA GCAGGGGGGC CACTTCGTTA AGCATGTCCC
4921 TGACTCGCAT GTTTTCCCTG ACCAAATCCG CCAGAAGGCG CTCGCCGCC AGCGATAGCA
4981 GTTCTTGCAA GGAAGCAAAG TTTTCAACG GTTTGAGACC GTCCGCCGTA GGCATGCTTT
5041 TGAGCGTTTG ACCAAGCAGT TCCAGGCGGT CCCACAGCTC GGTCACCTGC TCTACGGCAT
5101 CTCGATCCAG CATATCTCCT CGTTTCGCGG GTTGGGGCGG CTTTCGCTGT ACGGAGTAG
5161 TCGGTGCTCG TCCAGACGGG CCAGGTCAT GTCTTTCCAC GGGCGCAGGG TCCTCGTCAG
5221 CGTAGTCTGG GTCACGGTGA AGGGGTGCGC TCCGGGCTGC CCCTGCGCGT CCGCCAGGTA
5281 GAGGCTGGTC CTGCTGGTGC TGAAGCGCTG CCGGTCTTCG CCCTGCGCGT CCGCCAGGTA
5341 GCATTTGACC ATGGTGTCTG AGTCCAGCCC CTCCGCGGCG TGGCCCTTGG CGCGCAGCTT
5401 GCCCTTGGAG GAGGCGCCGC ACGAGGGGCA GTGCAGACTT TTGAGGGCGT AGAGCTTGGG
5461 CGCGAGAAAT ACCGATTCCG GGGAGTAGGC ATCCGCGCCG CAGGCCCCGC AGACGGTCTC
5521 GCATTCCACG AGCCAGGTGA GCTCTGGCCG TTCGGGTCA AAAACAGGT TCCCCCATG
5581 CTTTTTGATG CGTTTCTTAC CTCTGGTTTC CATGAGCCGG TGTCCACGCT CGGTGACGAA
5641 AAGGCTGTCC GTGTCCCCGT ATACAGACTT GAGAGGCTTG TCCTCGAGCG GTGTCCGCG
5701 GTCCTCCTCG TATAGAAACT CGGACCACTC TGAGACAAAG GCTCGCGTCC AGGCCAGCAC
5761 GAAGGAGGCT AAGTGGGAGG GGTAGCGGTC GTTGTCCACT AGGGGGTCCA CTCGCTCCAG
5821 GGTGTGAAGA CACATGTCGC CCTCTTCGGC ATCAAGGAAG GTGATTGGTT TGTAGGTGTA

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FIGURE 22
(SHEET 2)

5881 GGCCACGTGA CCGGGTGTTC CTGAAGGGGG GCTATAAAAG GGGGTGGGGG CGCGTTCGTG
5941 CTCACCTCTCT TCCGCATCGC TGCTGCGAG GGCCAGCTGT TGGGGTGAGT ACTCCCTCTG
6001 AAAAGCGGGG ATGACTTCTG CGCTAAGATT GTCAGTTTCC AAAAACGAGG AGGATTTGAT
6061 ATTACACCTGG CCCGCGGTGA TGCCTTTGAG GGTGGCCGCA TCCATCTGGT CAGAAAAGAC
6121 AATCTTTTTG TTGTCAAGCT TGGTGGCAAA CGACCCGTAG AGGGCGTTGG ACAGCAACTT
6181 GCGGATGGAG CGCAGGGTTT GGTTTTTGTG GCGATCGGCG CGCTCCTTGG CCGCGATGTT
6241 TAGCTGCACG TATTCGCGCG CAACGCACCG CCATTCGGGA AAGACGGTGG TGCGCTCGTC
6301 GGGCACCAGG TGCACGCGCC AACCGCGGTT GTGCAGGGTG ACAAGGTCAA CGCTGGTGGC
6361 TACCTCTCCG CGTAGGCGCT CGTTGGTCCA CGGAGGCGG CCGCCCTTGC GCGAGCAGAA
6421 TGGCGGTAGG GGGTCTAGCT GCGTCTCGTC CGGGGGGTCT GCGTCCACGG TAAAGACCCC
6481 GGGCAGCAGG CGCGCGTCTGA AGTAGTCTAT CTTGCATCCT TGCAAGTCTA GCGCCTGCTG
6541 CCATGCGCGG GCGGCAAGCG CGCGCTCGTA TGGGTTGAGT GGGGGACCCC ATGGCATGGG
6601 GTGGGTGAGC GCGGAGGCGT ACATGCCGCA AATGTCTGTA ACGTAGAGGG CTGTCCTGAG
6661 TATTCCAAGA TATGTAGGGT AGCATCTTCC ACCGCGGATG CTACGGGCGG GCTGCTCTGC
6721 TAGTTCGTGC GAGGGAGCGA GGAGGTCGGG ACCGAGGTTG GATATGGTTG GACGCTGGAA
6781 TCGGAAGACT ATCTGCCTGA AGATGGCATG TGAGTTGGAT GATATGGTTG GACGCTGGAA
6841 GACGTTGAAG CTGGCGTCTG TGAGACCTAC CGCGTACGCG ACCGAGGAGG CGTAGGAGTC
6901 GCGCAGCTTG TTGACCAGCT CGGCGGTGAC CTGCACGCTCT AGGGCGCAGT AGTCCAGGGT
6961 TTCCTTGATG ATGTCATACT TATCCTGTCC CTTTTTTTTT CACAGCTCGC GGTGAGGAC
7021 AAACCTCTCG CGGTCTTTCC AGTACTCTTG GATCGGAAAC CCGTCGGCCT CCGAACGGTA
7081 AGAGCCTAGC ATGTAGAACT GGTGACGGC CTGGTAGGCG CAGCATCCCT TTCTACGGG
7141 TAGCGGTAT GCCTGCGCGG CTTTCCGGAG CGAGGTGTGG GTGAGCGCAA AGGTGTCCCT
7201 GACCATGACT TTGAGGTAAG GGTATTTGAA GTCAGTGTGG AGGGCGAAGG TGACATCGTT
7261 GAGCAAAAAG TCCGTGCGCT TTTTGAACG CGGATTTGGC AGGGCGAAGG GTCCCGGCAC
7321 GAAGAGTATC TTCCCCGCGC GAGGCATAAA GTTGCCTGTG ATGCGGAAGG GTCCCGGCAC
7381 CTCGGAACGG TTGTTAATTA CCTGGGCGGC GAGCACGATC TCGTCAAAGC CGTTGATGTT
7441 GTGGCCCAACA ATGTAAAGTT CCAAGAAGCG CGGGATGCCC TTGATGGAAG GCAATTTTTT
7501 AAGTTCCTCG TAGGTGAGCT CTTACGGGGA GCTGAGCCCG TGCTCTGAAA GGGCCCAATG
7561 TGCAAGATGA GGGTTGGAAG CGACGAATGA GCTCCACAGG TCACGGGCCA TTAGCATTTG
7621 CAGGTGGTCG CGAAAGGTCC TAAACTGGCG ACCTATGGCC ATTTTCTCTG GGGTGTATGA
7681 GTAGAAGGTA AGCGGGTCTT GTTCCCAGCG GTCCCATCCA AGGTTTCGCG CTAGGTCTCG
7741 CGCGGCAGTC ACTAGAGGCT CATCTCCGCC GAACTTCATG ACCAGCATGA AGGGCACGAG
7801 CTGCTTCCCA AAGGCCCCCA TCCAAGTATA GGTCTCTACA TCGTAGGTGA CAAAGAGACG
7861 CTCGGTGCGA GGATGCGAGC CGATCGGGAA GAACTGGATC TCCCGCCACC AATTGGAGGA
7921 GTGGCTATTG ATGTGGTGAA AGTAGAAGTC CCTGCGACGG GCCGAACACT CGTGCTGGCT
7981 TTTGTAAAAA CGTGCAGAGT ACTGGCAGCG GTGCACGGGC TGTACATCCT GCACGAGGTT
8041 GACCTGACGA CCGCGCACAA GGAAGCAGAG TGGGAATTTG AGCCCCCTCG CGAGGGGAGT
8101 TGGCTGGTGG TCTTCTACTT CGGCTGCTTG TCCTTGACCG TCTGGCTGCT CGAGGGGAGT
8161 TACGGTGGAT CGGACCACCA CGCCGCGCGA GCGGCAAGTC CAGATGTCCG CGCGCGGCGG
8221 TCGGAGCTTG ATGACAACAT CGCGCAGATG GGAGCTGTCC ATGGTCTGGA GCTCCCGCGG
8281 CGTCAGGTCA GCGGGGAGCT CCTGCAGGTT TACCTCGCAT AGACGGGTCA GGGCGCGGGC
8341 TAGATCCAGG TGATACCTAA TTTCCAGGG CTGGTTGGTG GCGGCGTCTG TGGCTTGCAA
8401 GAGGCCGCAT CCCCAGCGCG GACTACGGT ACCGCGCGGC GGGCGGTGGG CCGCGGGGGT
8461 GTCCTTGGAT GATGCATCTA AAAGCGGTGA CGCGGGCGAG CCGCGCGGGG TAGGGGGGGC
8521 TCCGGACCCG CCGGGAGAGG GGGCAGGGGC ACGTCGGCGC CGCGCGCGGG CAGGAGCTGG
8581 TGCTGCGCGC GTAGGTTGCT GGCGAACGCG ACGACGCGGC GGTGATCTC CTGAATCTGG
8641 CGCCTCTGCG TGAAGACGAC GGGCCCGGTG AGCTTGAGCC TGAAAGAGAG TTCGACAGAA
8701 TCAATTTCTG TGTCGTTGAC GGCGGCTTGG CGCAAAATCT CCTGCACGTC TCTGAGTTG
8761 TCTTGATAGG CGATCTCGGC CATGAACCTG TCGATCTCTT CCTCCTGGAG ATCTCCGCGT
8821 CCGGCTCGCT CCACGGTGGC GGCGAGGTCT TTGGAAATGC GGGCCATGAG CTGCGAGAAG
8881 GCGTTGAGGC CTCCCTCGTT CCAGACGCGG CTGTAGACCA CGCCCCCTTC GGCATCGCGG
8941 GCGCGCATGA CCACCTGCGC GAGATTGAGC TCCACGTGCC GGGCGAAGAC GCGTAGTTT
9001 CGCAGGCGCT GAAAGAGGTA GTTGAGGGTG GTGGCGGTGT GTTCTGCCAC GAAGAAGTAC
9061 ATAACCCAGC GTCGCAACGT GGATTCTGTT ATATCCCCCA AGGCCTCAAG GCGCTCCATG
9121 GCCTCGTAGA AGTCCACGGC GAAGTTGAAA AACTGGGAGT TGCGCGCCGA CACGGTTAAC
9181 TCCTCCTCCA GAAGACGGAT GAGCTCGGCG ACAGTGTCGC GCACCTCGCG CTCAAAGGCT
9241 ACAGGGGCCT CTTCTTCTTC TTCAATCTCC TCTTCCATAA GGGCCTCCCC TTCTTCTTCT

FIGURE 22
(SHEET 3)

9301 TCTGGCGGCG GTGGGGGAGG GGGGACACGG CGGCGACGAC GGCGCACCGG GAGGCGGTCC
9361 ACAAAGCGCT CGATCATCTC CCCGCGGCGA CGGCGCATGG TCTCGGTGAC GGCGCGGCCG
9421 TTCTCGCGGG GCGCGAGTTG GAAGACGCCG CCCGTCATGT CCCGGTTATG GGTTGGCGGG
9481 GGGCTGCCAT GCGGCAGGGA TACGGCGCTA ACGATGCATC TCAACAATTG TTGTGTAGGT
9541 ACTCCGCCGC CGAGGGACCT GAGCGAGTCC GCATCGACCG GATCGGAAAA CCTCTCGAGA
9601 AAGGCGTCTA ACCAGTCACA GTCGCAAGGT AGGCTGAGCA CCGTGGCGGG CGGCAGCGGG
9661 CGGCGGTCCG GGTGTGTTCT GGCGGAGGTG CTGCTGATGA TGTAATTAAA GTAGGCGGTC
9721 TTGAGACGGC GGATGGTCGA CAGAAGCACC ATGTCCTTGG GTCCGGCCTG CTGAATGCGC
9781 AGGCGGTCCG CCATGCCCCA GGCTTCGTTT TGACATCGGC GCAGGTCTTT GTAGTAGTCT
9841 TGCATGAGCC TTTCTACCGG CACTTCTTCT TCTCCTTCCT CTTGTCCTGC ATCTCTTGCA
9901 TCTATCGCTG CGGCGGCGGC GGAGTTTGGC CGTAGGTGGC GCCCTCTTCC TCCCATGCGT
9961 GTGACCCCGA AGCCCCCAT CGGCTGAAGC AGGGCTAGGT CGGCACAAC GCGCTCGGCT
10021 AATATGGCCT GCTGCACCTG CGTGAGGGTA GACTGGAAGT CATCCATGTC CACAAAGCG
10081 TGGTATGCGC CCGTGTGAT GGTGTAAGTG CAGTTGGCCA TAACGAGCA GTTAACGGTC
10141 TGGTGACCCG GCTGCGAGAG CTCGGTGTAC CTGAGACGCG AGTAAGCCCT CGAGTCAAAT
10201 ACGTAGTCGT TGCAAGTCCG CACCAGGTAC TGGTATCCCA CCAAAAAGTG CGGCGGCGGC
10261 TGGCGGTAGA GGGGCCAGCG TAGGGTGGCC GGGGCTCCGG GGGCGAGATC TTCCAACATA
10321 AGGCGATGAT ATCCGTAGAT GTACCTGGAC ATCCAGGTGA TGCCGGCGGC GGTGGTGGAG
10381 GCGCGCGGAA AGTCGCGGAC GCGGTTCAG ATGTTGCGCA GCGGCAAAAA GTGCTCCATG
10441 GTCGGGACGC TCTGGCCGCT CAGGCGCGCG CAATCGTTGA CGCTCTAGCG TGCAAAAGGA
10501 GAGCCTGTAA GCGGGCACTC TTCCGTGGTC TGGTGGATAA ATTCGCAAGG GTATCATGGC
10561 GGACGACCGG GGTTCGAGCC CCGTATCCGG CCGTCCGCCG TGATCCATGC GGTACCGCC
10621 CGCGTGTGCA ACCCAGGTGT GCGACGTCAG ACAACGGGGG AGTGCTCCTT TTGGCTTCCT
10681 TCCAGGCGCG GCGGCTGCTG CGCTAGCTTT TTTGGCCACT CTCGCTCCCT GTAGCCGGAG GGTATTTC
10741 GTTAGGCTGG AAAGCGAAAG CATTAAAGTG AGTCTCGGAC CGGCCGACT GCGCGAAGC
10801 CAAGGGTTGA GTCGCGGGAC CCCCAGTTCC GCTTGCAAT TCCTCCGAA ACAGGGACGA
10861 GGGGTTTGCC TCCCCGTCAT TGCTTTTCCC AGATGCATCC GGTGCTGCGG CAGATGCGCC CCCCTCCTCA
10921 GCCCCTTTTT TGCTTTTCCC AGCGGCAGAC ATGCAGGGCA CCCTCCCCTC CACTTACCGC
10981 GCAGCGGCAA GACCAAGAGC AGCGGCAGAC GGCAGCAGAT GGTGATTACG AATCCCCGCG
11041 GTCAGGAGGG GCGACATCCG CGGTTGACGC GGCAGGCGAG GGCCTGGCGC GGCTAGGAGC
11101 GCGCCGGGCC CCGCACTACC TGGACTTGA GAGGGGCGAG GATAAGCGT AGGCGTACGT
11161 GCCCTCTCCT GAGCGGTACC CAAGGGTGCA GCTGAAGCGT CCGAGGAGA TGCGGGATCG
11221 GCCGCGCGAG AACCTGTTTC GCGACCGCGA AGCTGCGGCA TGGCCTGAAT CGCGAGCGGT TGCTGCGCGA
11281 AAAGTTCCAC GCAGGGCGCG AGCTGCGGCA GATTAGTCCC GCGCGCGCAC ACGTGGCGGC
11341 GGAGGACTTT GAGCCCGACG CGCAACCGG GATTAGTCCC GAGATTAAC TTCAAAAAAG
11401 CGCCGACCTG GTAACCGCAT ACGAGCAGAC GGTGAACAG GGTGCTATAG GACTGATGCA
11461 CTTTAACAAC CACGTGCGTA CGCTTGTTGG GCGCGAGGAG GTGGCTATAG GACTGATGCA
11521 TCTGTGGGAC TTTGTAAGCG CGCTGGAGCA AAACCCAAAT AGCAAGCCGC TCATGGCGCA
11581 GCTGTTCTCT ATAGTGCAGC ACAGCAGGGA CAACGAGGCA TTCAGGGATG CGCTGCTAAA
11641 CATAGTAGAG CCCGAGGGCC GCTGGCTGCT CGATTTGATA AACATCCTGC AGAGCATAGT
11701 GGTGCAGGAG CGCAGCTTGA GCCTGGCTGA CAAGGTGGCC GCCATCAACT ATTCCATGCT
11761 TAGCCTGGGC AAGTTTTACG CCCGCAAGAT ATACCATAAC CTTTACGTTT CCATAGACAA
11821 GGAGGTAAAG ATCGAGGGGT TCTACATGCG CATGGCGCTG AAGGTGCTTA CCTTGAGCGA
11881 CGACCTGGGC GTTTATCGCA ACGAGCGCAT CCACAAGGCC GTGAGCGTGA GCCGGCGGCG
11941 CGAGCTCAGC GACCGCGAGC TGATGCACAG CCTGCAAAGG GCCCTGGCTG GCACGGGCGC
12001 CGGCGATAGA GAGGCCGAGT CCTACTTTGA CGCGGGCGCT GACCTGCGCT GGGCCCCAAG
12061 CCGACGCGCC CTGGAGGCAG CTGGGGCCCG ACCTGGGCTG GCGGTGGCAC CCGCGCGCGC
12121 TGGCAACGTC GCGGTGATGT AGGAATATGA CGAGGACGAT GAGTACGAGC CAGAGGACGG
12181 CGAGTACTAA GCGGTGATGT TTCTGATCAG ATGATGCAAG ACGCAACGGA CCCGGCGGTG
12241 CCGGCGGCGC TGCAGAGCCA GCCGTCCGGC CTTAACCTCA CGGACGACTG GCGCCAGGTC
12301 ATGGACCGCA TCATGTGCT GACTGCGCGC AATCCTGACG CGTTCGGCA GCAGCCGCGC
12361 GCCAACCAGC TCTCCGCAAT TCTGGAAGCG GTGGTCCCGG CGCGCGCAAA CCCACGCGC
12421 GAGAAAGTGC TGGCGATCGT AAACGCGCTG GCCGAAAACA GGGCCATCCG CCCCAGCGAG
12481 GCCGCGCTGG TCTACGACGC GCTGCTTCAG CGCGTGGCTC GTTACAACAG CGGCAACGTC
12541 CAGACCAACC TGGACCGGCT GGTGGGGGAT GTGCGCGAGG CCGTGGCGCA GCGTGAGCGC
12601 GCGCAGCAGC AGGGCAACCT GGGCTCCATG GTTGCACTAA ACGCCTTCCT GAGTACACAG
12661 CCCGCCAAGC TGCCGCGGGG ACAGGAGGAC TACACCAACT TTGTGAGCGC ACTGCGGCTA

FIGURE 22
(SHEET 4)

12721 ATGGTGACTG AGACACCGCA AAGTGAGGTG TACCAGTCTG GGCCAGACTA TTTTTCAG
12781 ACCAGTAGAC AAGGCCTGCA GACCGTAAAC CTGAGCCAGG CTTTCAAAAA CTTGCAGGGG
12841 CTGTGGGGGG TGCGGGCTCC CACAGCGGAC CGCGCGACCG TGTCTAGCTT GCTGACGCCC
12901 AACTCGCGCC TGTGTCTGCT GCTAATAGCG CCCTTCACGG ACAGTGGCAG CGTGTCCCGG
12961 GACACATACC TAGGTCACTT GCTGACACTG TACCGCGAGG CCATAGGTCA GGCGCATGTG
13021 GACGAGCATA CTTTCCAGGA GATTACAAGT GTCAGCCGCG CGCTGGGGCA GGAGGACACG
13081 GGCAGCCTGG AGGCAACCCT AAACCTACCTG CTGACCAACC GGCGGCAGAA GATCCCCCTG
13141 TTGCACAGTT TAAACAGCGA GGAGGAGCGC ATTTTGCGCT ACGTGCAGCA GAGCGTGAGC
13201 CTTAACCTGA TGCGCGACGG GGTAACGCC AGCGTGCGCG TGGACATGAC CGCGCGCAAC
13261 ATGGAACCGG GCATGTATGC CTCAAACCGG CCGTTTATCA ACCGCTAAT GGACTACTTG
13321 CATCGCGCGG CCGCCGTGAA CCCCAGTAT TTCACCAATG CCATCTTGAA CCCGCACTGG
13381 CTACCGCCCC CTGGTTTCTA CACCGGGGGA TTCGAGGTGC CCGAGGGTAA CGATGGATTG
13441 CTCTGGGACG ACATAGACGA CAGCGTGTTC TCCCCGCAAC CGCAGACCCT GCTAGAGTTG
13501 CAACAGCGCG AGCAGGCAGA GGCGGCGCTG CGAAAGGAAA GCTTCCGCGA GCCAAGCAGC
13561 TTGTCCGATC TAGGCGCTGC GGCCCCGCGG TCAGATGCTA GTAGCCCAT TCCAAGCTTG
13621 ATAGGGTCTC TTACCAGCAC TCGCACCACC CGCCCCGCGC TGCTGGGCGA GGAGGAGTAC
13681 CTAACAACCT CGCTGCTGCA GCCGAGCGCG GAAAAAACC TGCTCCGGC ATTTCCCAAC
13741 AACGGGATAG AGAGCCTAGT GGACAAGATG AGTAGATGGA AGACGTACGC GCAGGAGCAC
13801 AGGGACCTGC CAGGCCCGCG CCGCCACACC CGTCGTCAA GGCACGACCG TCAGCGGGT
13861 CTGGTGTGGG AGGACGATGA CTCGGCAGAC GACAGCAGCG TCCTGGATTG GGGAGGGAGT
13921 GGCAACCCGT TTGCGCACCT TCGCCCCAGG CTGGGGAGAA TGTTTTAAAA AAAAAAAGC
13981 ATGATGCAAA ATAAAAAACC CACCAAGGCC ATGGCACCAG GCGTTGGTT TCTTGATTG
14041 CCCTTAGTAT GCGGCGCGCG GCGATGTATG AGGAAGTTC CTTCGATGCT CCCCTGGACC
14101 TGGTGAGCGC GGCGCCAGTG GCGGCGGCGC TGGGTTCTCC CTTGATGCT CCCCTGGACC
14161 CGCCGTTTGT GCCTCCGCGG TACCTGCGCG GTGTGTACCT GGTGGACAAC AAGTCAACGG
14221 CTGAGTTGGC ACCCCTATTC GACACCACCC GTGTGTACCT TCTGACCACG GTCATTCAAA
14281 ATGTGGCATC CCTGAACCTC CAGAACGACC ACAGCAACTT TCTGACCACG GTCATTCAAA
14341 ACAATGACTA CAGCCCGGGG GAGGCAAGCA CACAGACCAT CAATCTTGAC GACCGTTCG
14401 ACTGGGGCGG CGACCTGAAA ACCATCCTGC ATACCAACAT GCCAATGTG AACGAGTTCA
14461 TGTTTACCAA TAAGTTAAG GCGCGGGTGA TGGTGTGCG CTTGCTACT AAGGACAATC
14521 AGGTGGAGCT GAAATACGAG TGGGTGGAGT TCACGCTGCC CGAGGGCAAC TACTCCGAGA
14581 CCATGACCAT AGACCTTATG AACAACGCGA TAAAGTTTGA CACCGCAAC TTCAGACTGG
14641 AGAACGGGGT TCTGAAAAGC GACATCGGGG TAAAGTTTGA CACCGCAAC TTCAGACTGG
14701 GGTGTTGACCC CGTCACTGGT CTTGTATGCT CTGGGGTATA TACAAACGAA GCCTTCCATC
14761 CAGACATCAT TTTGCTGCCA GGATGCGGGG TGGACTTCAC CCACAGCCCG CACGAGTATC
14821 TGTTGGGCAT CCGCAAGCGG CAACCCCTTC AGGAGGGCTT TAGGATCACC TAGCATGATC
14881 TGGAGGGTGG TAACATTCCC GCACTGTTGG ATGTGGACGC CTACCAGGCG AGCTTGAAAG
14941 ATGACACCGA ACAGGGCGGG GGTGGCGCAG GCGGCAGCAA CAGCAGTGGC AGCGGCGCGG
15001 AAGAGAACTC CAACGCGGCA GCCGCGGCAA TGCAGCCGGT GGAGGACATG AACGATCATG
15061 CCATTCGCGG CGACACCTTT GCCACACGGG CTGAGGAGAA GCGCGCTGAG GCCGAAGCAG
15121 CGGCCGAAGC TGCCGCCCCC GCTGCGCAAC CCGAGGTCGA GAAGCCTCAG AAGAAACCGG
15181 TGATCAAACC CCTGACAGAG GACAGCAAGA AACGCAGTTA CAACCTAATA AGCAATGACA
15241 GCACCTTCAC CCACTACCGC AGCTGGTACC TTGCATACAA CTACGGCGAC CCTCAGACCG
15301 GAATCCGCTC ATGGACCCTG CTTTGCATC CTGACGTAAC CTGCGGCTCG GAGCAGGTCT
15361 ACTGGTCGTT GCCAGACATG ATGCAAGACC CCGTGACCTT CCGCTCCACG CGCCAGATCA
15421 GCAACTTTCC GGTGGTGGGC GCCGAGCTGT TGCCCGTGCA CTCCAAGAGC TTCTACAACG
15481 ACCAGGCCGT CTACTCCCAA CTCATCCGCC AGTTTACCTC TCTGACCCAC GTGTTCAATC
15541 GCTTTCCCGA GAACCAGATT TTGGCGCGCC CGCCAGCCCC CACCATCACC ACCGTCAGTG
15601 AAAACGTTCC TGCTCTCACA GATCACGGGA CGCTACCGCT GCGCAACAGC ATCGGAGGAG
15661 TCCAGCGAGT GACCACTACT GACGCCAGAC GCCGCACCTG CCCCTACGTT TACAAGGCC
15721 TGGGCATAGT CTCGCCGCGC GTCCTATCGA GCCGCACTTT TTGAGCAAGC ATGTTCATCC
15781 TTATATCGCC CAGCAATAAC ACAGGCTGGG GCCTGCGCTT CCAAGCAAG ATGTTTGGCG
15841 GGGCCAAGAA GCGCTCCGAC CAACACCCAG TGCGCGTGCG CGGGCACTAC CGCGCGCCCT
15901 GGGGCGCGCA CAAACGCGC CGCACTGGG GACACCCTG CGATGACGCC ATCGACGCGG
15961 TGGTGGAGGA GGCGCGCAAC TACAGCCCA CGCCGCCACC AGTGTCCACA GTGGACGCGG
16021 CCATTCAGAC CGTGGTGGCG GGAGCCCCG GCTATGCTAA AATGAAGAGA CGCGCGAGGC
16081 GCGTAGCACG TCGCCACCGC CGCCGACCCG GCACTGCCCG CCAACGCGG GCGCGGGCCG

FIGURE 22
(SHEET 5)

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16141	TGCTTAACCG	CGCACGTCGC	ACCGGCCGAC	GGGCGGCCAT	GCGGGCCGCT	CGAAGGCTGG
16201	CCGCGGGTAT	TGTCACGTGT	CCCCCAGGT	CCAGGCGACG	AGCGGCCGCC	GCAGCAGCCG
16261	CGGCCATTAG	TGCTATGACT	CAGGGTCGCA	GGGGCAACGT	GTATTGGGTG	CGCGACTCGG
16321	TTAGCGGCCT	GCGCGTGCCC	GTGCGCACCC	GCCCCCGCG	CAACTAGATT	GCAAGAAAAA
16381	ACTACTTAGA	CTCGTACTGT	TGTATGTATC	CAGCGGCGGC	GGCGCGCAAC	GAAGCTATGT
16441	CCAAGCGCAA	AATCAAAGAA	GAGATGCTCC	AGGTCATCGC	GCCGCGAGATC	TATGGCCCCC
16501	CGAAGAAGGA	AGAGCAGGAT	TACAAGCCCC	GAAAGCTAAA	GCGGGTCAAA	AAGAAAAAGA
16561	AAGATGATGA	TGATGAACTT	GACGACGAGG	TGGAACGTCT	GCACGCTACC	GCGCCCAGGC
16621	GACGGGTACA	GTGGAAAGGT	CGACGCGTAA	AACGTGTTTT	GCGACCCGGC	ACCACCGTAG
16681	TCCTTACGCC	CGGTGAGCGC	TCCACCCGCA	CCTACAAGCG	CGTGTATGAT	GAGGTGTACG
16741	GCGACGAGGA	CCTGCTTGAG	CAGGCCAACG	AGCGCCTCGG	GGAGTTTGCC	TACGGAAAGC
16801	GGCATAAGGA	CATGCTGGCG	TTGCCGCTGG	ACGAGGGCAA	CCCAACACCT	AGCCTAAAGC
16861	CCGTAACACT	GCAGCAGGTG	CTGCCGCGCG	TTGCACCGTC	CGAAGAAAAA	CGCGGCCTAA
16921	AGCGCGAGTC	TGGTGACTTG	GCACCCACCG	TGCAGCTGAT	GGTACCCAA	CGCCAGCGAC
16981	TGGAAGATGT	CTTGGAAGAA	ATGACCGTGG	AACCTGGGCT	GGAGCCCCG	GTCCGCGTGC
17041	GGCCAATCAA	GCAGGTGGCG	CCGGGACTGG	GCGTGCAGAC	CGTGGACGTT	CAGATACCCA
17101	CTACCACTAG	CACCACTATT	GCCACCGCCA	CAGAGGGCAT	GGAGACACAA	ACGTCCCCGG
17161	TTGCCCTCAG	GGTGGCGGAT	GCCGCGGTGC	AGGCGGTGCG	TGCGGCCGCG	TCCAAGACCT
17221	CTACGGAGGT	GCAAACGGAC	CCGTGGATGT	TTGCGTTTTT	AGCCCCCGCG	CGCCCCGCGG
17281	GTTCGAGGAA	GTACGGCGCC	GCCAGCGCGC	TACTGCCCCG	ATATGCCCTA	CATCCTTCCA
17341	TTGCGCCTAC	CCCCGGCTAT	CGTGGCTACA	CCTACCGCCC	CAGAAGACGA	GCAACTACCC
17401	GACGCCGAAC	CACCACTGGA	ACCCGCCGCC	GCCGTCGCGG	TGCGCCAGCC	GTGCTGGCCC
17461	CGATTTCCGT	GCGCAGGGTG	GCTCGCGAAG	GAGGCAGGAC	CCTGGTGCTG	CCAACAGCGC
17521	GCTACACCC	CAGCATCGTT	TAAAAGCCGG	TCCTTTGTGGT	TCTTGACAGT	ATGGCCCTCA
17581	CCTGCCGCT	CCGTTTCCCG	GTGCCGGGAT	TCCGAGGAAG	AATGCACCGT	AGGAGGGGCA
17641	TGGCCGGCCA	CGGCCTGACG	GGCGGCATGC	GTCGTGCGCA	CCACCGCGCG	CGGCGCGCGT
17701	CGCACCGTCG	CATGCGCGCG	GGTATCCTGC	CCCTCCTTAT	TCCACTGATC	GCCCGCGCGA
17761	TTGGCGCCGT	GCCCCGAATT	GCATCCGTGG	CCTTGACAGG	GCAGAGACAC	TGATTAAGAA
17821	CAAGTTGCAT	GTGGAAGAA	CAAAATAAAA	AGTCTGGACT	CTCACGCTCG	CTTGGTCCTG
17881	TAACATATTT	GTAGAATGGA	AGACATCAAC	TTTGCGTCTC	TGGCCCCGCG	ACACGGCTCG
17941	CGCCCCGTTT	TGGGAAACTG	GCAAGATATC	GGCACCAGCA	ATATGAGCGG	TGGCGCCTTC
18001	AGCTGGGGCT	CGCTGTGGAG	CGGCATTAAA	ATGCTGAGGG	ATAAGTTGAA	AGAGCAAAAT
18061	AGCAAGGCCT	GGAACAGCAG	CACAGGCCAG	ATGCTGAGGG	ATAAGTTGAA	AGAGCAAAAT
18121	TTCCAACAAA	AGGTGGTAGA	TGGCTGGGCC	TCTGGCATT	GCGGGGTGGT	GGACCTGGCC
18181	AACCAGGCAG	TGCAAAATAA	GATTAACAGT	AAGCTTGATC	CCC GCCCTCC	CGTAGAGGAG
18241	CCTCCACCGG	CCGTGGAGAC	AGTGTCTCCA	GAGGGGCGTG	GCGAAAAGCG	TCCGCGCCCC
18301	GACAGGGAAG	AAACTCTGGT	GACGCAATAA	GACGAGCCTC	CCTCGTACGA	GGAGGCACTA
18361	AAGCAAGGCC	TGCCCCACCAC	CCGTCCCATC	GCGCCCATGG	CTACCGGAGT	GCTGGGCCAG
18421	CACACACCCG	TAACGCTGGA	CCTGCCTCCG	CCCCCGACA	CCCAGCAGAA	ACCTGTGCTG
18481	CCAGGCCCGA	CCGCCGTTGT	TGTAACCCGT	CCTAGCCGCG	CGTCCCTGCG	CCGCGCCGCC
18541	AGCGGTCCGC	GATCGTTGCG	GCCCCGTAGC	AGTGGCAACT	GGCAAAGCAC	ACTGAACAGC
18601	ATCGTGGGTC	TGGGGGTGCA	ATCCCTGAAG	CGCCGACGAT	GCTTCTGAAT	AGCTAACGTG
18661	TCGTATGTGT	GTCAATGTATG	CGTCCATGTC	GCCGCCAGAG	GAGCTGCTGA	GCCGCCGCGC
18721	GCCCCGTTTC	CAAGATGGCT	ACCCCTTCGA	TGATGCCGCA	GTGGTCTTAC	ATGCACATCT
18781	CGGGCCAGGA	CGCCTCGGAG	TACCTGAGCC	CCGGGCTGGT	GCAGTTTGCC	CGCGCCACCG
18841	AGACGTACTT	CAGCCTGAAT	AACAAGTTTA	GAAACCCAC	GGTGGCGCCT	ACGCACGACG
18901	TGACCACAGA	CCGGTCCCG	CGTTTGACGC	TGCGGTTTAT	CCCTGTGGAC	CGTGAGGATA
18961	CTGCGTACTC	GTACAAGGCG	CGGTTTACCC	TAGCTGTGGG	TGATAACCGT	GTGCTGGACA
19021	TGGCTTCCAC	GTACTTTGAC	ATCCGCGGCG	TGCTGGACAG	GGGCCCTACT	TTTAAGCCCT
19081	ACTCTGGCAC	TGCCTACAAC	GCCCTGGCTC	CCAAGGGTGC	CCCAAATCCT	TGCGAATGGG
19141	ATGAAGCTGC	TACTGCTCTT	GAAATAAACC	TAGAAGAAGA	GGACGATGAC	AACGAAGACG
19201	AAGTAGACGA	GCAAGCTGAG	CAGCAAAAAA	CTCACGTATT	TGGGCAGGCG	CCTTATTCTG
19261	GTATAAATAT	TACAAAGGAG	GGTATTCAAA	TAGGTGTCGA	AGGTCAAACA	CCTAAATATG
19321	CCGATAAAAC	ATTTCAACCT	GAACCTCAAA	TAGGAGAATC	TCAGTGGTAC	GAAACTGAAA
19381	TTAATCATGC	AGCTGGGAGA	GTCCTTAAAA	AGACTACCCC	AATGAAACCA	TGTTACGGTT
19441	CATATGCAAA	ACCCACAAAT	GAAATGGAG	GGCAAGGCAT	TCTTGTAAG	CAACAAAATG
19501	GAAAGCTAGA	AAGTCAAGTG	GAAATGCAAT	TTTTCTCAAC	TACTGAGGCG	ACCGCAGGCA

FIGURE 22
(SHEET 6)

19561	ATGGTGATAA	CTTGACTCCT	AAAGTGGTAT	TGTACAGTGA	AGATGTAGAT	ATAGAAACCC
19621	CAGACACTCA	TATTTCTTAC	ATGCCCCACTA	TTAAGGAAGG	TAACCTACGA	GAACCTAATGG
19681	GCCAACAATC	TATGCCCAAC	AGGCCTAATT	ACATTGCTTT	TAGGGACAAT	TTTATTGGTC
19741	TAATGTATTA	CAACAGCACG	GGTAATATGG	GTGTTCTGGC	GGGCAAGCA	TCGCAGTTGA
19801	ATGCTGTTGT	AGATTGCAA	GACAGAAACA	CAGAGCTTTC	ATACCAGCTT	TTGCTTGATT
19861	CCATTGGTGA	TAGAACCAGG	TACTTTTCTA	TGTGGAATCA	GGCTGTTGAC	AGCTATGATC
19921	CAGATGTTAG	AATTATTGAA	AATCATGGAA	CTGAAGATGA	ACTTCCAAAT	TACTGCTTTC
19981	CACTGGGAGG	TGTGATTAAT	ACAGAGACTC	TTACCAAGGT	AAAACCTAAA	ACAGGTCAGG
20041	AAAATGGATG	GGAAAAAGAT	GCTACAGAAT	TTTCAGATAA	AAATGAAATA	AGAGTTGGAA
20101	ATAATTTTGC	CATGGAAATC	AATCTAAATG	CCAACCTGTG	GAGAAATTC	CTGTACTCCA
20161	ACATAGCGCT	GTATTTGCC	GACAAGCTAA	AGTACAGTCC	TTCCAACGTA	AAAATTTCTG
20221	ATAACCCAAA	CACCTACGAC	TACATGAACA	AGCGAGTGGT	GGCTCCCGGG	TTAGTTGGACT
20281	GCTACATTAA	CCTTGAGCA	CGCTGGTCCC	TTGACTATAT	GGACAACGTC	AACCCATTTA
20341	ACCACCCCG	CAATGCTGGC	CTGCGCTACC	GCTCAATGTT	GCTGGGCAAT	GGTCGCATG
20401	TGCCCTTCCA	CATCCAGGTG	CCTCAGAAGT	TCTTTGCCAT	TAAAAACCTC	CTTCTCCTGC
20461	CGGGCTCATA	CACCTACGAG	TGGAACCTCA	GGAAGGATGT	TAACATGGTT	CTGCAGAGCT
20521	CCCTAGGAAA	TGACCTAAGG	GTTGACGGAG	CCAGCATTA	GTTTGATAGC	ATTTGCCTTT
20581	ACGCCACCTT	CTTCCCCATG	GCCCAACAACA	CCGCCTCCAC	GCTTGAGGCC	ATGCTTAGAA
20641	ACGACACCAA	CGACCACTCC	TTTAACGACT	ATCTCTCCGC	CGCCAACATG	CTCTACCCTA
20701	TACCCGCCAA	CGCTACCAAC	GTGCCCATAT	CCATCCCCTC	CCGCAACTGG	GCGGCTTTCC
20761	GCGGCTGGGC	CTTCACGCGC	CTTAAGACTA	AGGAAACCCC	ATCACTGGGC	TCCGGCTACG
20821	ACCCTTATTA	CACCTACTCT	GGCTCTATAC	CCTACCTAGA	TGGAACCTTT	TACCTCAACC
20881	ACACCTTTAA	GAAGGTGGCC	ATTACCTTTG	ACTCTTCTGT	CAGCTGGCCT	GGCAATGACC
20941	GCCTGCTTAC	CCCCAACGAG	TTTGAAATTA	AGCGCTCAGT	TGACGGGGAG	GGTTACAACG
21001	TTGCCCAGTG	TAACATGACC	AAAGACTGGT	TCTTGGTACA	AATGCTAGCT	AACTACAACA
21061	TTGGCTACCA	GGGCTTCTAT	ATCCCAGAGA	GCTACAAGGA	CCGCATGTAC	TCCTTCTTTA
21121	GAAACTTCCA	GCCCATGAGC	CGTCAGGTGG	TGGATGATAC	TAAATACAAG	GACTACCAAC
21181	AGGTGGGCAT	CCTACACCAA	CACAACAAC	CTGGATTTGT	TGGCTACCTT	GCCCCCACC
21241	TGCGCGAAGG	ACAGGCCTAC	CCTGCTAAT	TCCCCTATCC	GCTTATAGGC	AAGACCGCAG
21301	TTGACAGCAT	TACCCAGAAA	AAGTTTCTTT	GCGATCGCAC	CCTTTGGCGC	ATCCCATTCT
21361	CCAGTAACTT	TATGTCCATG	GGCGCACTCA	CAGACCTGGG	CCAAAACCTT	CTCTACGCCA
21421	ACTCCGCCCA	CGCGCTAGAC	ATGACTTTTG	AGGTGGATCC	CATGGACGAG	CCCACCTTC
21481	TTTATGTTTT	GTTTGAAGTC	TTTGACGTGG	TCCGTGTGCA	CCGGCCGCAC	CGCGGCGTCA
21541	TCGAAACCGT	GTACCTGCGC	ACGCCCTTCT	CGGCCGGCAA	CGCCACAACA	TAAAGAAGCA
21601	AGCAACATCA	ACAACAGCTG	CCGCCATGGG	CTCCAGTGAG	CAGGAAGTGA	AAGCCATGT
21661	CAAAGATCTT	GTTTGTGGGC	CATATTTTTT	GGGCACCTAT	GACAAGCGCT	TTCCAGGCTT
21721	TGTTTCTCCA	CACAAGCTCG	CCTGCGCCAT	AGTCAATACG	GCCGGTCCGC	AGACTGGGGG
21781	CGTACACTGG	ATGGCCTTTG	CCTGGAACCC	GCACTCAAAA	ACATGCTACC	TCTTTGAGCC
21841	CTTTGGCTTT	TCTGACCAGC	GACTCAAGCA	GGTTTACCAG	TTTGAGTACG	AGTCACTCCT
21901	GCGCCGTAGC	GCCATTGCTT	CTTCCCCCGA	CCGCTGTATA	ACGCTGGAAA	AGTCCACCCA
21961	AAGCGTACAG	GGGCCCAACT	CGGCCGCTG	TGGACTATTC	TGCTGCATGT	TTCTCCACGC
22021	CTTTGCCAAC	TGGCCCCAAA	CTCCCATGGA	TCACAACCCC	ACCATGAACC	TTATTACCGG
22081	GGTACCCAAC	TCCATGCTCA	ACAGTCCCCA	GGTACAGCCC	ACCCTGCGTC	GCAACCAAGG
22141	ACAGCTCTAC	AGCTTCTCTG	AGCGCCACTC	GCCCTACTTC	CGCAGCCACA	GTGCGCAGAT
22201	TAGGAGCGCC	ACTTCTTTTT	GTCACCTTGA	AAACATGTAA	AAATAATGTA	CTAGAGACAC
22261	TTTCAATAAA	GGCAAATGCT	TTTATTTGTA	CACCTCTCGG	TGATTATTTA	CCCCCACCCT
22321	TGCCGTCTGC	GCCGTTTAAA	AATCAAAGGG	GTTCTGCCGC	GCATCGCTAT	GCGCCACTGG
22381	CAGGGACACG	TTGCGATACT	GGTGTTTAGT	GCTCCACTTA	AACTCAGGCA	CAACCATCCG
22441	CGGCAGCTCG	GTGAAGTTTT	CACCTCCACAG	GCTGCGCACC	ATCACCACG	CGTTTAGCAG
22501	GTCGGGCGCC	GATATCTTGA	AGTCGCAGTT	GGGGCCTCCG	CCCTGCGCGC	GCGAGTTGCG
22561	ATACACAGGG	TTGCAGCACT	GGAACACTAT	CAGCGCCGGG	TGGTGCACGC	TGGCCAGCAC
22621	GCTCTTGTCG	GAGATCAGAT	CCGCGTCCAG	GTCTCCCGCG	TTGCTCAGGG	GGAACGGAGT
22681	CAACTTTGGT	AGCTGCCTTC	CCAAAAAGGG	CGCGTGCCCA	GGCTTTGAGT	TGCACTCGCA
22741	CCGTAGTGGC	ATCAAAAGGT	GACCGTGCCC	GGTCTGGGCG	TTAGGATACA	GCGCCTGCAT
22801	AAAAGCCTTG	ATCTGCTTAA	AAGCCACCTG	AGCCTTTGCG	CCTTCAGAGA	AGAACATGCC
22861	GCAAGACTTG	CCGGAACACT	GATTGGCCGG	ACAGGCCGCG	TCGTGCACGC	AGCACCTTGC
22921	GTCGGTGTTG	GAGATCTGCA	CCACATTTTCG	GCCCCACCGG	TTCTTCACGA	TCTTGGCCTT

FIGURE 22
(SHEET 7)

22981 GCTAGACTGC TCCTTCAGCG CGCGCTGCCC GTTTTCGCTC GTCACATCCA TTTCAATCAC
23041 GTGCTCCTTA TTTATCATAA TGCTTCCGTG TAGACACTTA AGCTCGCCTT CGATCTCAGC
23101 GCAGCGGTGC AGCCACAACG CGCAGCCCGT GGGCTCGTGA TGCTTGTAGG TCACCTCTGC
23161 AAACGACTGC AGGTACGCCT GCAGGAATCG CCCCATCATC GTCACAAAGG TCTTGTGTCT
23221 GGTGAAGGTC AGCTGCAACC CGCGGTGCTC CTCGTTCAGC CAGGTCTTGC ATACGGCCGC
23281 CAGAGCTTCC ACTTGGTCAG GCAGTAGTTT GAAAGTTCGCC TTTAGATCGT TATCCACGTG
23341 GTACTTGTCC ATCAGCGCGC GCGCAGCCTC CATGCCCTTC TCCCACGCAG ACACGATCGG
23401 CACACTCAGC GGGTTCATCA CCGTAATTTT ACTTTCCGCT TCGCTGGGCT CTTCTCTTTC
23461 CTCTTGGCTC CGCATAACAC GCGCCACTGG GTCTGCTTCA TTCAGCCGCC GCACTGTGCG
23521 CTTACCTCCT TTGCCATGCT TGATTAGCAC CCGTGTGTC CACGATTACC TCTGGTGATG GCGGGCGCTC
23581 CGCCACATCT TCTCTTTCTT CCTCGCTGTC CTTGGGCGCA ATGGCCAAAT CCGCCCGCGA
23641 GGGCTTGGGA GAAGGGCGCT TCTTTTCTT CTTGGGCGCA TCTTGTGATG AGTCTTCTCT
23701 GGTCGATGGC CGCGGGCTGG GTGTGCGCGG CACCAGCGCG GCGCGCCGGG GAGGCGGCGG
23761 GTCCTCGGAC TCGATACGCC GCCTCATCCG CTTTTTTGGG CGTCGCGCCG CACCGCGTCC
23821 CGACGGGGAC GGGGACGACA CGTCTCCCAT GGTGGGGGA GGTGCGCCG GCCATTTCTT TCTCTATAG
23881 GCGCTCGGGG GTGGTTTCGC GCTGCTCCTC TTCCCGACTG CTAACCGCCC CCTCTGAGTT
23941 GCAGAAAAAG ATCATGGAGT CAGTCGAGAA GAAGGACAGC ACCTTCCCCG TCGAGGCACC
24001 CGCCACCACC GCCTCCACCG ATGCCGCCAA CGCGCCTACC ACCTTCCCCG TCGAGGCACC
24061 CCCGCTTGAG GAGGAGGAAG TGATTATCGA GCAGGACCCA GGTTTTGTA GCGAAGACGA
24121 CGAGGACCGC TCAGTACCAA CAGAGGATAA AAAGCAAGAC CAGGACAACG CAGAGCAAA
24181 CGAGGAACAA GTCGGCGGGG GGGACGAAAG GCATGGCGAC TACCTAGATG TGGGAGACGA
24241 CGTGCTGTTG AAGCATCTGC AGCGCCAGTG CGCCATTATC TGCGACGCGT TGCAAGAGCG
24301 CAGCGATGTG CCCCTCGCCA TAGCGGATGT CAGCCTTGCC TACGAACGCC ACCTATTCTC
24361 ACCGCGCGTA CCCCCCAAAC GCCAAGAAAA CCGCACATGC GAGCCCAACC CGCGCCTCAA
24421 CTTCTACCCC GTATTTGCCG TGCCAGAGGT GCTTGCCACC TATCACATCT TTTTCCAAAA
24481 CTGCAAGATA CCCCTATCCT GCGGTGCCAA CCGCAGCCGA GCGGACAAGC AGCTGGCCTT
24541 GCGGAGGGG GCTGTCTATC CTGATATCGC CTCGCTCAAC GAAGTGCCAA AAATCTTTGA
24601 GGGTCTTGA CGCGACGAGA AGCGCGCGGC AAACGCTCTG CAACAGGAAA ACAGCGAAAA
24661 TGAAAGTCAC TCTGGAGTGT TGGTGGAACT CGAGGGTGAC AACGCGCGCC TAGCCGTACT
24721 AAAACGCAGC ATCGAGGTCA CCCACTTTGC CTACCCGGCA CTTAACCTAC CCCCCAAGGT
24781 CATGAGCACA GTCATGAGTG AGCTGATCGT GCGCCGTGCG CAGCCCCTGG AGAGGGATGC
24841 AAATTTGCAA GAACAAACAG AGGAGGGCCT ACCCGCAGTT GGCGACGAGC AGCTAGCGCG
24901 CTGGCTTCAA ACAGCGCGAGC CTGCGGAGTT GGAGGAGCGA CGCAAATAA TGATGGCCCG
24961 AGTGCTCGTT ACCGTGGAGC TGTGATGTCAT GCAGCGGTTT TTTGCTGACC CGGAGATGCA
25021 GCGCAAGCTA GAGGAAACAT TGCACTACAC CTTTCGACAG GGCTACGTAC GCGAGGCTG
25081 CAAGATCTCC AACGTGGAGC TCTGCAACCT GGTCTCCTAC CTTGGAATTT TGCACGAAAA
25141 CCGCCTTGGG CAAAACGTGC TTCATTCCAC GCTCAAGGGC GAGGCGCGCC GCGACTACGT
25201 CCGCGACTGC GTTTACTTAT TTCTATGCTA CACCTGGCAG ACAGGCCATG GCGTTTGGCA
25261 GCAGTGCTTG GAGGAGTGCA ACCTCAAGGA GCTGCAGAAA CTGCTAAAGC AAAACTTGAA
25321 GGACCTATGG ACAGCCTTCA ACGAGCGCTC CGTGGCCGCG CACCTGGCGG ACATCATTTT
25381 CCCCAGACGC CTGCTTAAAA CCCTGCAACA GGGTCTGCCA GACTTCACCA GTCAAAGCAT
25441 GTTGCAAGAC TTTAGGAACT TTATCCTAGA GCGCTCAGGA ATCTTGCCCG CCACCTGCTG
25501 TGCACTTCCT AGCGACTTTG TGCCCATTA GTACCGCGAA TGCCCTCCGC CGCTTTGGGG
25561 CCACTGTCTAC CTTCTGCAGC TAGCCAACTA CTTGCTCTAC CACTCTGACA TAATGGAAGA
25621 CGTGAGCGGT GACGGTCTAC TGGAGTGTCA CTGTCGCTGC AACCTATGCA CCCCACCGC
25681 CTCCCTGGTT TGCAATTCGC AGCTGCTTAA CGAAAGTCAA ATTATCGGTA CCTTTGAGCT
25741 GCAGGGTCCC TCGCCTGACG AAAAGTCCGC GGCTCCGGGG TTGAAACTCA CTCCGGGGCT
25801 GTGGACGTCG GCTTACCTTC GCAAATTTGT ACCTGAGGAC TACCACGCCC ACGAGATTAG
25861 GTTCTACGAA GACCAATCCC GCCCCCAA TGCGGAGCTT ACCGCTGCG TCATTACCCA
25921 GGGCCACATT CTTGGCCAAT TGCAAGCCAT CAACAAAGCC CGCCAAGAGT TTCTGCTACG
25981 AAAGGGACGG GGGGTTTACT TGGACCCCA GTCCGGCGAG GAGCTCAACC CAATCCCCC
26041 GCCGCCGAG CCCTATCAGC AGCAGCCGCG GGCCCTTGCT TCCCAGGATG GCACCCAAAA
26101 AGAAGCTGCA GCTGCCGCG CCACCCACGG ACGAGGAGGA ATACTGGGAC AGTCAGGAGG
26161 AGGAGGTTTT GGACGAGGAG GAGGAGGACA TGATGGAAGA CTGGGAGAGC CTAGACGAGG
26221 AAGCTTCCGA GGTGCAAGAG GTGTGAGAG AAACACCGTC ACCCTCGGTC GCATTCCCCT
26281 CGCCGGCGCC CCAGAAATCG GCAACCGGTT CCAGCATGGC TACAACCTCC GCTCCTCAGG
26341 CGCCGCCGGC ACTGCCCCGT CGCCGACCCA ACCGTAGATG GGACACCACT GGAACCAGGG

FIGURE 22
(SHEET 8)

29821	CCTAAACTAG	GAAGTGGCCT	TAGTTTTGAC	AGCACAGGTG	CCATTACAGT	AGGAAACAAA
29881	AATAATGATA	AGCTAACTTT	GTGGACCACA	CCAGCTCCAT	CTCCTAACTG	TAGACTAAAT
29941	GCAGAGAAAG	ATGCTAAACT	CACCTTGGTC	TTAACAAAAT	GTGGCAGTCA	AATACTTGCT
30001	ACAGTTTCAG	TTTTGGCTGT	TAAAGGCAGT	TTGGCTCCAA	TATCTGGAAC	AGTTCAAAGT
30061	GCTCATCTTA	TTATAAGATT	TGACGAAAAT	GGAGTGCTAC	TAAACAATTC	CTTCCTGGAC
30121	CCAGAATATT	GGAACTTTAG	AAATGGAGAT	CTTACTGAAG	GCACAGCCTA	TACAAAACGT
30181	GTTGGATTTA	TGCCTAACCT	ATCAGCTTAT	CCAAAATCTC	ACGGTAAAAC	TGCCAAAAGT
30241	AACATTGTCA	GTCAAGTTTA	CTTAAACGGA	GACAAAACCTA	AACCTGTAAAC	ACTAACCATT
30301	ACACTAAACG	GTACACAGGA	AACAGGAGAC	ACAACCTCAA	GTGCATACCT	TATGTCATTT
30361	TCATGGGACT	GGTCTGGCCA	CAACTACATT	AATGAAATAT	TTGCCACATC	CTCTTACACT
30421	TTTTCATACA	TTGCCCAAGA	ATAAAGAATC	GTTTGTGTTA	TGTTTCAACG	TGTTTATTTT
30481	TCAATTGCAG	AAAATTTCAA	GTCATTTTTC	ATTCAGTAGT	ATAGCCCCAC	CACCACATAG
30541	CTTATACAGA	TCACCGTACC	TTAATCAAAC	TCACAGAACC	CTAGTATTCA	ACCTGCCACC
30601	TCCCTCCCAA	CACACAGAGT	ACACAGTCTT	TTCTCCCCGG	CTGGCCTTAA	AAAGCATCAT
30661	ATCATGGGTA	ACAGACATAT	TCTTAGGTGT	TATATTCCAC	ACGGTTTCTT	GTCCGAGCAA
30721	ACGCTCATCA	GTGATATTAA	TAAACTCCCC	GGGCAGCTCA	CTTAAGTTCA	TGTCGCTGTC
30781	CAGCTGCTGA	GCCACAGGCT	GCTGTCCAAC	TTGCGGTTGC	TTAACGGGCG	GCGAAGGAGA
30841	AGTCCACGCC	TACATGGGGG	TAGAGTCATA	ATCGTGCATC	AGGATAGGGC	GGTGGTGCTG
30901	CAGCAGCGCG	CGAATAAACT	GCTGCCGCCG	CCGCTCCGTC	CTGCAGGAAT	ACAACATGGC
30961	AGTGGTCTCC	TCAGCGATGA	TTCCGACCCG	CCGCAGCATA	AGGCGCCTTG	TCCTCCGGGC
31021	ACAGCAGCGC	ACCCTGATCT	CCTTAAATC	AGCACAGTAA	CTGCAGCACA	GCACCACAAT
31081	ATTGTTCAAAA	ATCCCACAGT	GCAAGGCGCT	GTATCCAAAG	CTCATGGCGG	GGACCACAGA
31141	ACCCACGTGG	CCATCATACC	ACAAGCGCAG	GTAGATTAAAG	TGGCGACCCC	TCATAAACAC
31201	GCTGGACATA	AACATTACCT	CTTTTGGCAT	GTTGTAATTC	ACCACCTCCC	GTACCATAT
31261	AAACCTCTGA	TTAAACATGG	CGCCATCCAC	CACCATCCTA	AACCAGCTGG	CCAAAACCTG
31321	CCCGCCGGCT	ATACACTGCA	GGGAACCGGG	ACTGGAACAA	TGACAGTGGA	GAGCCCAGGA
31381	CTCGTAACCA	TGGATCATCA	TGCTCGTCAT	GATATCAATG	TTGGCACAAC	ACAGGCACAC
31441	GTGCATACAC	TTCCTCAGGA	TTACAAGCTC	CTCCCGCGTT	AGAACCATAT	CCCAGGGAAC
31501	AACCCATTCC	TGAATCAGCG	TAAATCCAC	ACTGCAGGGA	AGACCTCGCA	CGTAACTCAC
31561	GTTGTGCATT	GTCAAAGTGT	TACATTCCGG	CAGCAGCGGA	TGATCCTCCA	GTATGGTAGC
31621	GCGGGTTTCT	GTCTCAAAAG	GAGGTAGACG	ATCCCTACTG	TACGGAGTGC	GCCGAGACAA
31681	CCGAGATCGT	GTTGGTCGTA	GTGTCATGCC	AAATGGAACG	CCGGAGCTAG	TCATATTTC
31741	TGAAGCAAAA	CCAGGTGCGG	GCGTGACAAA	CAGATCTGCG	TCTCCGGTCT	CGCCGCTTAG
31801	ATCGCTCTGT	GTAGTAGTTG	TAGTATATCC	ACTCTCTCAA	AGCATCCAGG	CGCCCCCTGG
31861	CTTCGGGTTT	TATGTAAACT	CCTTCATGCG	CCGCTGCCCT	GATAACATCC	ACCACCGCAG
31921	AATAAGCCAC	ACCCAGCCAA	CCTACACATT	CGTTCTGCGA	GTCACACACG	GGAGGAGCGG
31981	GAAGAGCTGG	AAGAACCATTG	TTTTTTTTTT	TATTCCAAAA	GATTATCCAA	AACCTCAAAA
32041	TGAAGATCTA	TTAAGTGAAC	GCGCTCCCTT	CCGGTGGCGT	GGTCAAATC	TACAGCCAAA
32101	GAACAGATAA	TGGCATTTGT	AAGATGTTGC	ACAATGGCTT	CCAAAAGGCA	AACGGCCCTC
32161	ACGTGCAAGT	GGACGTAAAG	GCTAAACCCT	TCAGGGTGAA	TCTCCTCTAT	AAACATTCCA
32221	GCACCTTCAA	CCATGCCCAA	ATAATTCTCA	TCTCGCCACT	TTCTCAATAT	ATCTCTAAGC
32281	AAATCCCGAA	TATTAAGTCC	GGCCATTGTA	AAAATCTGCT	CCAGAGCGCC	CTCCACCTTC
32341	AGCCTCAAGC	AGCGAATCAT	GATTGCAAAA	ATTCAGGTTT	CTCACAGACC	TGTATAAGAT
32401	TCAAAAAGCGG	AACATTAAAC	AAAATACCGC	GATCCCGTAG	GTCCCTTCGC	AGGGCCAGCT
32461	GAACATAATC	GTGCAGGCTT	GCACGGACCA	GCGCGGCCAC	TTCCCGGCCA	GGAACCTTGA
32521	CAAAAAGAAC	CACACTGATT	ATGACACGCA	TACTCGGAGC	TATGCTAACC	AGCGTAGCCC
32581	CGATGTTAAG	TTTGTTCGAT	GGGCGGCGAT	ATAAAATGCA	AGGTGCTGCT	CAAAAAATCA
32641	GGCAAAGCCT	CGCGCAAAAA	AGAAAAGCACA	TCGTAGTCAT	GCTCATGCAG	ATAAAGGCAG
32701	GTAAGCTCCG	GAACCACCAC	AGAAAAAGAC	ACCAATTTTC	TCTCAAACAT	GTCTGCGGGT
32761	TTCTGCATAA	ACACAAAATA	AAATAACAAA	AAAAATTATA	AACATTAGAA	GCCTGTCTTA
32821	CAACAGGAAA	AACAACCCTT	ATAAGCATAA	GACGGACTAC	GGCCATGCCG	GCGTGACCGT
32881	AAAAAACTG	GTACCGGTGA	TTAAAAAGCA	CCACCGACAG	CTCCTCGGTC	ATGTCCGGAG
32941	TCATAATGTA	AGACTCGGTA	AACACATCAG	GTTGATTTCAT	CGGTCAGTGC	TAAAAAGCGA
33001	CCGAAATAGC	CCGGGGGAAT	ACATACCCGC	AGGCGTAGAG	ACAACATTAC	AGCCCCCATA
33061	GCGAGTATAA	CAAAATTAAT	AGGAGAGAAA	AACACATAAA	CACCTGAAAA	ACCCTCCTGC
33121	CTAGGCAAAA	TAGCACCTTC				

kd1

33241 CCAGCTCAAT CAGTCACAGT GTAAAAAAGG GCCAAGTGCA GAGCGAGTAT ATATAGGACT
 33301 AAAAAATGAC GTAACGGTTA AAGTCCACAA AAAACACCCA GAAAACCGCA CGCGAACCTA
 33361 CGCCCAGAAA CGAAAGCCAA AAAACCCACA ACTTCCTCAA ATCGTCACTT CCGTTTTCCC
 33421 ACGTTACGTA ACTTCCCATT TTAAGAAAAC TACAATTCCC AACACATACA AGTTACTCCG
 33481 CCCTAAAACC TACGTCACCC GCCCCGTTCC CACGCCCCGC GCCACGTCAC AAACCTCCACC
 33541 CCCTCATTAT CATATTGGCT TCAATCCAAA ATAAGGTATA TTATTGATGA TG

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 CDS 1..34341

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 /product="KD3"

BASE COUNT 7951 a 9671 c 9464 g 7255 t

ORIGIN

1 CATCATCAAT AATATACCTT ATTTTGGATT GAAGCCAATA TGATAATGAG GGGGTGGAGT

61 TTGTGACGTG GCGCGGGGCG TGGGAACGGG GCGGGTGACG TAGTAGTGTG GCGGAAGTGT

121 GATGTTGCAA GTGTGGCGGA ACACATGTAA GCGACGGATG TGGCAAAAGT GACGTTTTTG

181 GTGTGCGCCG GTGTACACAG GAAGTGACAA TTTTCGCGCG GTTTTAGGCG GATGTTGTAG

241 TAAATTTGGG CGTAACCGAG TAAGATTGG CCATTTTCGC GGGAAAACTG AATAAGAGGA

301 AGTGAAATCT GAATAATTTT GTGTTACTCA TAGCGCGTAA TATTTGTCTA GGGCCGCGGG

361 GACTTTGACC GTTTACGTGG AGACTCGCCC AGGTGTTTTT CTCAGGTGTT TTCCGCGTTC

421 CGGGTCAAAG TTGGCGTTTT ATTATTATAG TCAGCTGACG TGTAGTGTAT TTATACCCGG

481 TGAGTTCCTC AAGAGGCCAC TCTTGAGTGC CAGCGAGTAG AGTTTTCTCC TCCGAGCCGC

541 TCCGACACCG GGACTGAAAA TGAGACATGA GGTACTGGCT GATAATCTTC CACCTCCTAG

601 CCATTTTGAA CCACCTACCC TTCACGAACT GTATGATTTA GACGTGACGG CCCCCGAAGA

661 TCCCAACGAG GAGGCGGTTT CGCAGATTTT TCCCGACTCT GTAATGTTGG CCGTGACCGC

721 AGGGATTGAC TTACTCACTT TTCCGCGGGC GCGCGGTTCT CCGGAGCCGC CTCACCTTTC

781 CCGGCAGCCC GAGCAGCCGG AGCAGAGAGC CTTGGGTCCG GTTTGCCACG AGGCTGGCTT

841 TCCACCCAGT GACGACGAGG ATGAAGAGGG TGAGGAGTTT GTGTTAGATT ATGTGGAGCA

901 CCGCGGGCAC GGTTGCAGGT CTGTGCTATA TGAGGACCTG TGGCATGTTT GTCTACAGTA AGTGAAAAAT

961 TATGTGTTTC CTTTGCTATA TGGTGGGTTT GGTGTGGTAA TTTTTTTTTT AATTTTTTACA

1021 ATGGGCAGTG GGTGATAGAG TTGTATTGTG ATTTTTTTAA AAGGTCCTGT GTCTGAACCT

1081 GTTTTGTGGT TTAAAGAAAT TTGTATTGTG ATTTTTTTAA AAGGTCCTGT GTCTGAACCT

1141 GAGCCTGAGC CCGAGCCAGA ACCGGAGCCT GCAAGACCTA CCCGCCCTCC TAAATGGCG

1201 CCTGCTATCC TGAGACGCCC GACATCACCT GTGTCTAGAG AATGCAATAG TAGTACGGAT

1261 AGCTGTGACT CCGTCCCTTC TAACACACCT CCTGAGATAC ACCCGTGGT CCCGCTGTGC

1321 CCCATTAAAC CAGTTGCCGT GAGAGTTGGT GGGCGTCGCC AGGCTGTGGA ATGTATCGAG

1381 GACTTGCTTA ACGAGCCTGG GCAACCTTGG GACTTGAGCT GTAAACGCCC CAGGCCATAA

1441 GGTGTAAACC TGTGATTGCG TGTGTGGTTA ACGCCTTTGT TTGCTGAATG AGTTGATGTA

1501 AGTTTAATAA AGGGTGAGAT AATGTTTAAAC TTGCATGGCG TGTTAAATGG GGCGGGGCTT

1561 AAAGGGTATA TAATGCGCCG TGGGCTAATC TTGTTTACAT CTGACCTCAT GGAGGCTTGG

1621 GAGTGTTTGG AAGATTTTTC TGCTGTGCGT AACTTGCTGG AACAGAGCTC TAACAGTACC

1681 TCTTGGTTTT GGAGGTTTCT GTGGGGCTCA TCCCAGGCAA AGTTAGTCTG CAGAATTAAG

1741 GAGGATTACA AGTGGGAATT TGAAGAGCTT TTGAAATCCT GTGGTGAGCT GTTTGATTCT

1801 TTGAATCTGG GTCACCAGGC GCTTTTCCAA GAGAAGGTCA TCAAGACTTT GGATTTTTTCC

1861 ACACCGGGGC GCGCTGCGGC TGCTGTTGCT TTTTGTAGTT TTATAAAGGA TAAATGGAGC

1921 GAAGAAACCC ATCTGAGCGG GGGGTACCTG CTGGATTTTC TGGCCATGCA TCTGTGGAGA

1981 GCGGTTGTGA GACACAAGAA TCGCCTGCTA CTGTTGTCTT CCGTCCGCCC GGCGATAATA

2041 CCGACGGAGG AGCAGCAGCA GCAGCAGGAG GAAGCCAGGC GGCGGCGGCA GGAGCAGAGC

2101 CCATGGAACC CGAGAGCCGG CCTGGACCCT CGGGAATGAA TGTTGTACAG GTGGCTGAAC

2161 TGTATCCAGA ACTGAGACGC ATTTTGACAA TTACAGAGGA TGGGCAGGGG CTAAAGGGGG

2221 TAAAGAGGGA GCGGGGGGCT TGTGAGGCTA CAGAGGAGGC TAGGAATCTA GCTTTTAGCT

2281 TAATGACCAG ACACCGTCCT GAGTGTATTA CTTTCAACA GATCAAGGAT AATTGCGCTA

2341 ATGAGCTTGA TCTGCTGGCG CAGAAGTATT CCATAGAGCA GCTGACCACT TACTGGCTGC

2401 AGCCAGGGGA TGATTTTGAG GAGGCTATTA GGGTATATGC AAAGGTGGCA CTTAGGCCAG

FIGURE 23
(SHEET 1)

5881	GGCCACGTGA	CCGGGTGTTT	CTGAAGGGGG	GCTATAAAAG	GGGGTGGGGG	CGCGTTCGTC
5941	CTCACTCTCT	TCCGCATCGC	TGTCTGCGAG	GGCCAGCTAG	TGGGTGAGT	ACTCCCTCTG
6001	AAAAGCGGGC	ATGACTTCTG	CGCTAAGATT	GTCAGTTTCT	AAAAACGAGG	AGGATTTGAT
6061	ATTACCTTGG	CCCGCGGTGA	TGCCTTTGAG	GGTGCCGCA	TCCATCTGGT	CAGAAAAGAC
6121	AATCTTTTTT	TTGTCAAGCT	TGGTGGCAAA	CGACCCGTAG	AGGGCGTTGG	ACAGCAACTT
6181	GGCGATGGAG	CGCAGGGTTT	GGTTTTTGTC	GCGATCGGCG	CGCTCCTTGG	CCGCGATGTT
6241	TAGCTGCACG	TATTCGCGCG	CAACGCACCG	CCATTGCGGA	AAGACGGTGG	TGCGCTCGTC
6301	GGGCACCAAG	TGCACGCGCC	AACCGCGGTT	GTGCAGGGTG	ACAAGGTCAA	CGCTGGTGGC
6361	TACCTCTCCG	CGTAGGCGCT	CGTTGGTCCA	GCAGAGGCGG	CCGCCCTTGC	CGCAGCAGAA
6421	TGGCGGTAGG	GGGTCTAGCT	GCGTCTCGTC	CGGGGGGTCT	CGCTCCACGG	TAAAGACCCC
6481	GGGCAGCAGG	CGCGCGTCTGA	AGTAGTCTAT	CTTGACCTCT	TGCAAGTCTA	GCGCCTGCTG
6541	CCATGCGCGG	GCGGCAAGCG	CGCGCTCGTA	TGGGTTGAGT	GGGGGACCCC	ATGGCATGGG
6601	GTGGGTGAGC	GCGGAGGCGT	ACATGCCGCA	AATGTCGTAA	ACGTAGAGGG	GCTCTCTGAG
6661	TATTTCCAAG	TATGTAGGGT	AGCATCTTCC	ACCGCGGATG	CTGGCGCGCA	CGTAATCGTA
6721	TAGTTTCGTG	GAGGGAGCGA	GGAGGTCGGG	ACCGAGGTTG	CTACGGGCGG	GCTGCTCTGC
6781	TCCGGAAGACT	ATCTGCCTGA	AGATGGCATG	TGAGTTGGAT	GATATGGTTG	GACGCTGGAA
6841	GACGTTGAAG	CTGGCGTCTG	TGAGACCTAC	CGCGTCAACG	ACGAAGGAGG	CGTAGGAGTC
6901	GCGCAGCTTG	TTGACCAGCT	CGGCGGTGAC	CTGCACGTCT	AGGGCGCAGT	AGTCCAGGGT
6961	TTCCTTGATG	ATGTCATACT	TATCCTGTCT	CTTTTTTTTC	CACAGCTCGC	GGTTGAGGAC
7021	AAACTCTTCG	CGGTCTTTCC	AGTACTCTTG	GATCGGAAAC	CCGTGCGCCT	CCGAACGGTA
7081	AGAGCCTAGC	ATGTAGAACT	GGTTACGCGC	CTGGTAGGCG	CAGCATCCCT	TTTCTACGGG
7141	TAGCGCGTAT	GCCTGCGCGG	CCTTCCGGAG	CGAGGTGTGG	GTGAGCGCAA	AGGTGTCCCT
7201	GACCATGACT	TTGAGGTACT	GGTATTTGAA	GTCAGTGTCT	TGCGATCCCG	CCTGCTCCCA
7261	GAGCAAAAAG	TCCGTGCGCT	TTTTGGAACG	CGGATTTGGC	AGGGCGAAGG	TGACATCGTT
7321	GAAGAGTATC	TTTCCGCGCG	GAGGCATAAA	GTGCGGTGTG	ATGCGGAAGG	GTCCCGGCAC
7381	CTCGGAACGG	TTGTTAATTA	CCTGGGCGCG	GAGCACGATC	TCGTCAAAGC	CGTTGATGTT
7441	GTGGCCACAC	ATGTAAAGTT	CCAAGAAGCG	CGGGATGCCC	TTGATGGAAG	GCAATTTTTT
7501	AAGTTCCTCG	TAGGTGAGCT	CTTCAGGGGA	GCTGAGCCCG	TGCTCTGAAA	GGGCCAGCTC
7561	TGCAAGATGA	GGGTGGAAG	CGACGAATGA	GCTCCACAGG	TCACGGGCCA	TTAGCATTTG
7621	CAGGTGGTCT	CGAAAGGTC	TAAACTGGCG	ACCTATGGCC	ATTTTTTCTG	GGGTGATGCA
7681	GTAGAAGTGA	AGCGGGTCTT	GTTCCACAGC	GTCCCATCCA	AGGTTCGCGG	CTAGGTCTCG
7741	CGCGGCAGTC	ACTAGAGGCT	CATCTCCGCC	GAACCTCATG	ACCAGCATGA	AGGGCACGAG
7801	CTGCTTCCCA	AAGGCCCCCA	TCCAAGTATA	GGTCTCTACA	TCGTAGGTGA	CAAAGAGACG
7861	CTCGGTGCGA	GGATGCGAGC	CGATCGGGAA	GAACCTGATC	TCCCGCCACC	AATTGGAGGA
7921	GTGGCTATTG	ATGTGGTGAA	AGTAGAAGTC	CTGCGACGG	GCCGAACACT	CGTGCTGGCT
7981	TTTGTA AAAA	CGTGCGCAGT	ACTGGCAGCG	GTGCACGGGC	TGTACATCCT	GCACGAGGTT
8041	GACCTGACCA	CCGCGCACAA	GGAAGCAGAG	TGGGAATTTG	AGCCCCCTCG	CTGGCGGGTT
8101	TGGCTGGTGG	TCTTCTACTT	CGGCTGCTTG	TCCTTGACCG	TCTGGCTGCT	CGAGGGGAGT
8161	TACGGTGATG	CGGACCACCA	CGCCGCGCGA	GCCCCAAGTC	CAGATGTCCG	CGCGCGCGCG
8221	TCGGAGCTTG	ATGACAACAT	CGCGCAGATG	GGAGCTGTCC	ATGGTCTGGA	GCTCCCGCGG
8281	CGTCAGGTCA	GGCGGGAGCT	CCTGCAGGTT	TACCTTCGAT	AGACGGGTCA	GGGCGCGGGC
8341	TAGATCCAGG	TGATACCTAA	TTTCCAGGGG	CTGGTTGGTG	GCGGCGTCTGA	TGGCTTGCAA
8401	GAGGCCGCAT	CCCCGCGGCG	CGACTACGGT	ACCGCGCGGC	GGGCGGTGGG	CCGCGGGGGT
8461	GTCTTTGGAT	GATGCATCTA	AAAGCGGTGA	CGCGGGCGAG	CCCCCGGAGG	TAGGGGGGGC
8521	TCCGGACCCG	CCGGGAGAGG	GGGCAGGGGC	ACGTGCGCGC	CGCGCGCGGG	CAGGAGCTGG
8581	TGCTGCGCGC	TGAGGTTGCT	GGCGAACGCG	ACGACGCGGC	GGTTGATCTC	CTGAATCTGG
8641	CGCTCTTCGC	TGAAGACGAC	GGGCCCCGGT	AGCTTGAGCC	TGAAAGAGAG	TTCGACAGAA
8701	TCAATTTTCG	TGTCGTTGAC	GGCGGCCCTG	CGCAAAATCT	CCTGCACGTC	TCCTGAGTTG
8761	TCTTGATAGG	CGATCTCGGC	CATGAACGTC	TCGATCTCTT	CTCCTGAGG	ATCTCCGCGT
8821	CCGGCTCGCT	CCACGGTGGC	GGCGAGGTCT	TTGGAAATGC	GGGCCATGAG	CTGCGAGAAG
8881	GCGTTGAGGC	CTCCCTCGTT	CCAGACGCGG	CTGTAGACCA	CGCCCCCTTC	GGCATCGCGG
8941	GCGCGCATGA	CCACCTGCGC	GAGATTGAGC	TCCACGTGCC	GGGCGAAGAC	GGCGTAGTTT
9001	CGCAGGCGCT	GAAAGAGGTA	GTTGAGGGTG	GTGGCGGTGT	GTTCTGCCAC	GAGAAAGTAC
9061	ATAACCCAGC	GTCGCAACGT	GGATTCTGTT	ATATCCCCCA	AGGCCTCAAG	CACGGTTAAC
9121	GCCTCGTAGA	AGTCCACGGC	GAAAGTGAAA	AACTGG		

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9301 TCTGGCGGCG GTGGGGGAGG GGGGACACGG CGGCGACGAC GGCGCACCGG GAGGCGGTCC
9361 ACAAAGCGCT CGATCATCTC CCCGCGGCGA CGGCGCATGG TCTCGGTGAC GGCGCGGCCG
9421 TTCTCGCGGG GCGCGAGTTG GAAGACGCCG CCCGTCATGT CCCGGTTATG GGTGGCGGG
9481 GGGCTGCCAT GCGGCGAGGA TACGGCGCTA ACGATGCATC TCAACAATTG TTGTGTAGGT
9541 ACTCCGCCGCG CGAGGGACCT GAGCGAGTCC GCATCGACCG GATCGGAAAA CCTCTCGAGA
9601 AAGGCGTCTA ACCAGTCACA GTCGCAAGGT AGGCTGAGCA CCGTGGCGGG CGGCGAGCGG
9661 CGGCGGTCCG GGTGTGTTCT GCGGAGGTG CTGCTGATGA TGTAATTAAA GTAGGCGGTG
9721 TTGAGACGGC GGATGGTCTGA CAGAAGCACC ATGTCCTTGG GTCCGGCCTG CTGAATGCGC
9781 AGGCGGTCCG CCATGCCCCA GGCTTCGTTT TGACATCGGC GCAGGTCTTT GTAGTAGTCT
9841 TGCATGAGCC TTTCTACCGG CACTTCTTCT TCTCCTTCCT CTGTCTTCG ATCTCTTGCA
9901 TCTATCGCTG CGGCGGCGGC GGAGTTTGGC CGTAGGTGGC GCCCTCTTCC TCCCATGCGT
9961 GTGACCCCGA AGCCCTCAT CGGCTGAAGC AGGGCTAGGT CGGCGACAAC CATCCATGTC CACAAAGCGG
10021 AATATGGCCT GCTGCACCTG CGTGAGGGTA GACTGGAAGT TAACGGACCA GTTAACGGTC
10081 TGGTATGCGC CCGTGTGAT GGTGTAAGTG CAGTTGGCCA AGTAAGCCCT CGAGTCAAAT
10141 TGGTGACCCG GCTGCGAGAG CTCGGTGTAC CTGAGACGCG CCAAAAAGTG CGGCGGCGGC
10201 ACGTAGTCGT TGCAAGTCCG CACCAGGTAC TGGTATCCCA GGGGCTCCGG GGGCGAGATC TTCCAACATA
10261 TGGCGGTAGA GGGGCCAGCG TAGGGTGGCC ATCCAGGTGA TGCCGGCGGC GGTGGTGGAG
10321 AGGCGATGAT ATCCGTAGAT GTACCTGGAC ATGTTGCGCA GCGGCAAAAA GTGCTCCATG
10381 GCGCGCGGAA AGTCGCGGAC GCGGTTCCAG ATGTTGCGCA CGCTCTAGCG TGCAAAAAGGA
10441 GTCGGGAGCA TCTGGCCGGT CAGGCGCGCG CAATCGTTGA CGCTCTAGCG GTATCATGGC
10501 GAGCCTGTAA GCGGGCACTC TTCCGTGGTC TGGTGGATAA ATTCGCAAGG GTATCATGGC
10561 GGACGACCGG GGTTCGAGCC CCGTATCCGG CCGTCCGCCG TGATCCATGC GGTATCCGCC
10621 CGCGTGTCTGA ACCCAGGTGT GCGACGTACG ACAAACGGGG AGTGCTCCTT TTGGTTTCTT
10681 TCCAGGCGCG GCGGCTGCTG CGTAGCTTTT TTTGGCCACT GGCCGCGCGC AGCGTAAGCG
10741 GTTAGGCTGG AAAGCGAAAG CATTAAAGTG CTCGCTCCCT GTAGCCGGAG GGTATTTTTC
10801 CAAGGGTTGA GTCGCGGGAC CCCCAGTTTC AGTCTCGGAC CGGCCGGACT GCGGCGAACG
10861 GGGGTTTGCC TCCCCGTAT GCAAGACCCC GCTTGCAAAT TCCTCCGGAA ACAGGGACGA
10921 GCCCTTTTTT TGCTTTTCCC AGATGCATCC GGTGCTGCGG CAGATGCGCC CCCCTCCTCA
10981 GCAGCGGCAA GAGCAAGAGC AGCGGCAGAC ATGCAGGGCA CCCTCCCTC CTCCTACCGC
11041 GTCAGGAGGG GCGACATCCG CGGTTGACGC GGCAGCAGAT GGTGATTACG AACCCCGCG
11101 GCGCCGGGCC CGGCACTACC TGGACTTGA GGAGGGCGAG GGCTGGCGC GGCTAGGAGC
11161 GCCCTCTCCT GAGCGGTACC CAAGGGTGA GCTGAAGCGT GATACGCGTG AGGCGTACGT
11221 GCGCGGCGAG AACCTGTTTC GCGACCGCGA GGGAGAGGAG CCCGAGGAGA TGCGGGATCG
11281 AAAGTTCCAC GCAGGGCGCG AGCTGCGGCA TGGCCTGAAT CGCGAGCGGT TGCTGCGCGC
11341 GGAGGACTTT GAGCCCAGC CGCGAACCAG GATTAGTCCC GCGCGCGCAC ACCTGGCGG
11401 CGCCGACCTG GTAACCGCAT ACGAGCAGAC GGTGAACCAG GAGATTAACT TTCAAAAAAG
11461 CTTTAAACAC CACGTGCGTA CGCTTGTGGC GCGCGAGGAG GTGGCTATAG GACTGATGCA
11521 TCTGTGGGAC TTTGTAAGCG CGCTGGAGCA AAACCCAAAT AGCAAGCCGC TCATGGCGCA
11581 GCTGTTCCTT ATAGTGCAGC ACAGCAGGGA CAACGAGGCA TTCAGGGATG CGCTGCTAAA
11641 CATAGTAGAG CCCGAGGGCC GCTGGCTGCT CAAGGTGGCC GCCATCAACT ATTCCATGCT
11701 GGTGCAGGAG CGCAGCTTGA GCCTGGCTGA CAAGGTGGCC CTTTACGTTT CCATAGACAA
11761 TAGCCTGGGC AAGTTTTACG CCCGCAAGAT ATACCATACT CTTTACGTTT CTTTGGAGCA
11821 GGAGGTAAAG ATCGAGGGGT TCTACATGCG CATGGCGCTG AAGGTGCTTA CTTTGGAGCA
11881 CGAGCTGGGC GTTTATCGCA ACGAGCGCAT CCACAAGGCC GTGAGCGTGA GCCGGCGGCG
11941 CGAGCTCAGC GACCGCGAGC TGATGCACAG CCTGCAAAGG GCCCTGGCTG GCACGGGCGC
12001 CGGCGATAGA GAGGCCGAGT CCTACTTTGA CGCGGGCGCT GACCTGCGCT GGGCCCCAAG
12061 CCGACGCGCC CTGGAGGCGA CTGGGGCCGG ACCTGGGCTG GCGGTGGCAC CCGCGCGCGC
12121 TGGCAACGTC GGCGGCGTGG AGGAATATGA CGAGGACGAT GAGTACGAGC CAGAGGACCG
12181 CGAGTACTAA GCGGTGATGT TTCTGATCAG ATGATGCAAG ACGCAACGGA CCCGGCGGTG
12241 CGGGCGGCGC TGCAGAGCCA GCCGTCCGGC CTTAACTCCA CGGACGACTG GCAGCCGCGC
12301 ATGGACCGCA TCATGTGCTG GACTGCGCGC AATCCTGACG CGTTCCGGCA GCAGCCGCGC
12361 GCCAACCAGG TCTCCGCAAT TCTGGAAGCG GTGGTCCCGG CGCGCGCAAA CCCCACGCGC
12421 GAGAAGGTGC TGGCGATCGT AAACCGCGTG GCCGAAAAA GGGCCATCCG GCGGACGAG
12481 GCGGCGCTGG TCTACGACGC GCTGCTTCAG CGCGTGGCTC GTTACAACAG CCGCAACGTG
12541 CAGACCAACC TGGACCGGCT GGTGGGGGAT GTGCGCGAGG CCGTGGCGCA GCGTGAGCGC
12601 GCGCAGCAGC AGGGCAACCT GGGCTCCATG GTTGCACTAA ACGCTTCTT GAGTACACAG
12661 CCCGCCAACG TGCCGCGGGG ACAGGAGGAC TACACCAACT TTGTGAGCGC ACTGCGGCTA

FIGURE 23
(SHEET 4)

12721 ATGGTGA CTG AGACACCGCA AAGTGAGGTG TACCAGTCTG GGCCAGACTA TTTTTCAG
12781 ACCAGTAGAC AAGGCCTGCA GACCGTAAAC CTGAGCCAGG CTTTCAAAAA CTTGCAGGGG
12841 CTGTGGGGGG TGCGGGCTCC CACAGGCGAC CGCGCGACCG TGTCTAGCTT GCTGACGCCC
12901 AACTCGCGCC TGTGCTGCT GCTAATAGCG CCCTTCACGG ACAGTGGCAG CGTGTCCCG
12961 GACACATACC TAGGTCACTT GCTGACACTG TACCGCGAGG CCATAGGTCA GGCGCATGTG
13021 GACGAGCATA CTTTCCAGGA GATTACAAGT GTCAGCCGCG CGCTGGGGCA GGAGGACACG
13081 GGCAGCCTGG AGGCAACCCT AAACCTACCTG CTGACCAACC GCGCGCAGAA GATCCCCCTG
13141 TTGCACAGTT TAAACAGCGA GGAGGAGCGC ATTTTGCGCT ACGTGCAGCA GAGCGTGAGC
13201 CTTAACCTGA TGCGCGACGG GGTAAACGCC AGCGTGGCGC TGGACATGAC CGCGCGCAAC
13261 ATGGAACCGG GCATGTATGC CTCAAACCGG CCGTTTATCA ACCGCCAAT GGACTIONG
13321 CATCGCGCGG CCGCCGTGAA CCCCAGTAT TTCACCAATG CCATCTTGA CCCGACTGG
13381 CTACCGCCCC CTGTTTCTA CACCGGGGA TTCGAGGTG CCGAGGTAA CGTAGATTG
13441 CTCTGGGACG ACATAGACGA CAGCGTGTTC TCCCCGCAAC CGCAGACCCT GCTAGATTG
13501 CAACAGCGCG AGCAGGCAGA GGCGGCGCTG CGAAAGGAAA GTAGCCCATT TCCAAGCTG
13561 TTGTCCGATC TAGGCGCTGC GGCCCCGCGG TCAGATGCTA TGCTGGGCGA GGAGGAGTAC
13621 ATAGGTCTC TTACCAGCAC TCGCACCACC GCGCAGCGC GAAAAAACC TGCTCCGGC ATTTCCCAAC
13681 CTAAACAACCT CGCTGCTGCA GCCGAGCGC AGTAAAGATG AGTAGATGGA AGACGTACGC GCAGGAGCAC
13741 AACGGGATAG AGAGCCTAGT GGACAAGATG AGTAGATGGA AGACGTACGC GCAGGAGCAC
13801 AGGGACGTGC CAGGCCCGCG CCGCCCCACC CGTCGTCAA GGCACGACCG TCAGCGGGT
13861 CTGGTGTGGG AGGACGATGA CTCGGCAGAC GACAGCAGCG TCCTGGATT TCCGCGGAGT
13921 GGCAACCCGT TTGCGCACCT TCGCCCCAGG CTGGGGAGAA TGTTTTAAAA AAAAAAAGC
13981 ATGATGCAAA ATAAAAAAT CACCAAGGCC ATGGCACCAG GCGTTGGTT TCTGTATTG
14041 CCCTTAGTAT GCGGCGCGCG GCGATGTATG AGGAAGTCC TCCTCCCTCC TACGAGAGT
14101 TGGTGAGCGG GGCGCCAGTG GCGGCGCGCG CTACCGGGG GAGAAACAGC ATCCGTTACT
14161 CGCCGTTTGT GCCTCCGCGG TACCTGCGG GTGTGTACCT GGTGGACAAC AAGTCAACGG
14221 CTGAGTTGGC ACCCTTATTC CAGAACGACC ACAGCAACTT TCTGACCAG GTCAATCAA
14281 ATGTGGCATC CCTGAACCTAC GAGGCAAGCA CACAGACCAT CAATCTTGAC GACCGTCCG
14341 ACAATGACTA CAGCCCCGGG ACCATCCTGC ATACCAACAT GCCAAATGT AACGAGTTCA
14401 ACTGGGGCGG CGACCTGAAA ACCATCCTGC ATACCAACAT GCCAAATGT AACGAGTTCA
14461 TGTTTACCAA TAAGTTTAA GCGCGGGTGA TGGTGTGCGG CTGCTGCTG CAGAGGCAAC TACTCCGAGA
14521 AGGTGGAGCT GAAATACGAG TGGGTGGAGT TCACGCTGCC CGAGGGCAAC TACTCCGAGA
14581 CCATGACCAT AGACCTTATG AACAAACGCA TCGTGGAGCA CTACTTGAAG GTGGGCGAGC
14641 AGAACGGGGT TCTGGAAAGC GACATCGGGG TAAAGTTTGA CACCCGCAAC TTCAGACTGG
14701 GGTGTGACCC CGTCACTGGT CTTGTCTATG CTGGGGTATA TACAAACGAA GCCTTCCATC
14761 CAGACATCAT TTGCTGCCA GGATGCGGGG TGGACTTCAC CCACAGCCCG CTGAGCAACT
14821 TGTGGGCGAT CCGCAAGCGG CAACCCCTTC AGGAGGGCTT TAGGATCACC TACGATGATC
14881 TGGAGGGTGG TAACATTCCC GCACTGTTGG ATGTGGACGC CTACAGGCG AGCTTGAAG
14941 ATGACACCGA ACAGGGCGGG GGTGGCGCAG GCGGCAGCAA CAGCAGTGGC AGCGGCGCGG
15001 AAGAGAACTC CAACGCGGCA GCCGCGGCAA TGCAGCCGGT GGAGGACATG AACGATCATG
15061 CCATTGCGGG CGACACCTTT GCCACACGGG CTGAGGAGAA GCGCGCTGAG GCCGAAGCAG
15121 CGGCCGAAGC TGCCGCCCCC GCTGCGCAAC CCGAGGTCGA GAAGCCTCAG AAGAAACCGG
15181 TGATCAAACC CCTGACAGAG GACAGCAAGA AACGCAGTTA CAACCTAATA AGCAATGACA
15241 GCACCTTCAC CCAGTACCGC AGCTGGTACC TTGCATACAA CTACGGCGAC CCTCAGACCG
15301 GAATCCGCTC ATGGACCCTG CTTTGCATC CTGACGTAAC CTGCGGCTCG GAGCAGGTCT
15361 ACTGGTCGTT GCCAGACATG ATGCAAGACC CCGTGACCTT TGCCCGTGCA CTCCAAGAGC TTCTACAACG
15421 GCAACTTTCC GGTGGTGGG GCGGAGCTGT TGGCTGCTC AGTTTACCTC TCTGACCCAC GTGTTCAATC
15481 ACCAGGCCGT CTACTCCCAA CTCATCCGCC CGCCAGCCCC CACCATCACC ACCGTCAGTG
15541 GCTTTCCCGA GAACCAGATT TTGGCGCGCC CGCTACCGCT GCGCAACAGC ATCGGAGGAG
15601 AAAACGTTCC TGCTCTCACA GATCACGGGA GCGCACCTG CCCCTACGTT TACAAGGCC
15661 TCCAGCGAGT GACCATTACT GACGCCAGAC GCGCACCTT TTGAGCAAGC ATGTCCATCC
15721 TGGGCATAGT CTCGCCGCGC GTCCTATCGA GCGCACCTT TTGAGCAAGC ATGTCCATCC
15781 TTATATCGCC CAGCAATAAC ACAGGCTGGG GCCTGCGCTT CCAAGCAAG ATGTTTGGCG
15841 GGGCCAAGAA GCGCTCCGAC CAACACCCAG TGCGCGTGCG CCGGCACTAC CGCGCGCCCT
15901 GGGGCGCGCA CAAACGCGGC CGCACTGGGC GCACACCGT CGATGACGCC ATCGACGCGG
15961 TGGTGGAGGA GGCGCGCAAC TACAGCCCCA CGCCGCCACC AGTGTCCACA GTGGACGCGG
16021 CCATTGAGAC CGTGGTGGC GGAGCCCGG GCTATGCTAA AATGAAGAGA CGGCGGAGGC
16081 GCGTAGCACG TCGCCACCGC CGCCGACCCG GCACTGCCGC CCAACGCGCG GCGGCGGCCC

FIGURE 23
(SHEET 5)

16141 TGCTTAACCG CGCACGTCGC ACCGGCCGAC GGGCGGCCAT GCGGGCCGCT CGAAGGCTGG
16201 CCGCGGGTAT TGTCACGTGT CCCCCAGGT CCAGGCGACG AGCGGCCGCC GCAGCAGCCG
16261 CGGCCATTAG TGCTATGACT CAGGGTCGCA GGGGCAACGT GTATTGGGTG CGCGACTCGG
16321 TTAGCGGCCT GCGCGTGCCC GTGCGCACCC GCGCGCGGCG GCGCGCGAAC GAAGCTATGT
16381 ACTACTTAGA CTCGTACTGT TGTATGTATC CAGCGGCGGC GCGCGGAGATC TATGGCCCCC
16441 CCAAGCGCAA AATCAAAGAA GAGATGCTCC AGGTCATCGC GCCCGAGATC TATGGCCCCC
16501 CGAAGAAGGA AGAGCAGGAT TACAAGCCCC GAAAGCTAAA GCGGGTCAAA AAGAAAAAGA
16561 AAGATGATGA TGATGAACTT GACGACGAGG TGGAAGTGTG GCGACCTACC GCGCCAGGC
16621 GACGGGTACA GTGGAAAGGT CGACGCGTAA AACGTGTTTT GCGACCCGGC ACCACCGTAG
16681 TCTTTACGCC CGGTGAGCGC TCCACCCGCA CCTACAAGCG CGTGTATGAT GAGGTGTACG
16741 GCGACGAGGA CCTGCTTGAG CAGGCCAACG AGCGCCTCGG GGAGTTTGCC TACGGAAAGC
16801 GGCATAAGGA CATGCTGGCG TTGCCGCTGG ACGAGGGCAA CCCAACACCT AGCCTAAAGC
16861 CCGTAACACT GCAGCAGGTG CTGCCCCGCG TTGCACCGTC CGAAGAAAAG CGCGCCTAA
16921 AGCGCGAGTC TGGTGACTTG GCACCCACCG TGCAGCTGAT GGTACCCAAG CGCCAGCGAC
16981 TGGAAGATGT CTTGGAAAAA ATGACCGTGG AACCTGGGCT GGAGCCCGAG GTCCGCGTGC
17041 GGCCAATCAA GCAGGTGGCG CCGGGACTGG GCGTGCAGAC CGTGGACGTT CAGATACCCA
17101 CTACCAGTAG CACCAGTATT GCCACCGCCA CAGAGGGCAT GGAGACACAA ACGTCCCCGG
17161 TTGCCTCAGC GGTGGCGGAT GCGCGGTGCG AGGCGGTGCG TCGGGCCGCG TCCAAGACCT
17221 CTACGGAGGT GCAAACGGAC CCGTGGATGT TTCGCGTTTC AGCCCCCGG CGCCCCGCGC
17281 GTTCGAGGAA GTACGGCGCC GCCAGCGCGC TACTGCCCCG ATATGCCCTA CATCCTTCCA
17341 TTGCGCCTAC CCGCGCTAT CGTGGCTACA CCTACCGCCC CAGAAGACGA GCAACTACCC
17401 GACGCCGAAC CACCACTGGA ACCCGCCGCC GCGGTGCGCG TCGCCAGCCC GTGCTGGCCC
17461 CGATTTCCGT GCGCAGGGTG GCTCGCGAAG GAGGCAGGAC CCTGGTGCTG CCAACAGCGC
17521 GCTACCACCC CAGCATCGTT TAAAAGCCGG TCTTTGTGGT TCTTGCAGAT ATGGCCCTCA
17581 CCTGCCGCTT CCGTTTCCCG GTGCCGGGAT GTCTGCGCA CCACCGCGCG CGGCGCGCGT
17641 TGGCCGGCCA CGGCCTGACG GCGCGCATGC CCCTCCTTAT TCCACTGATC GCCGCGCGCA
17701 CGCACCGTCG CATGCGCGCG GGTATCCTGC CCTTGCAGGC GCAGAGACAC TGATTAAAAA
17761 TTGGCGCCGT GCCCGGAATT GCATCCGTGG CCGTGCAGGC CTCACGCTCG CTGGCTCCTG
17821 CAAGTTGCAT GTGGAAAAAT CAAAATAAAA AGTCTGGACT CTGCCCCGCG ACACGGCTCG
17881 TAACATTTT GTAGAATGGA AGACATCAAC TTTGCGTCTC TGGCCCCGCG TGGCGCCTTC
17941 CGCCCCTTCA TGGGAACTG GCAAGATATC GGCACCAGCA ATATGAGCGG TGGCGCCTTC
18001 AGCTGGGGCT CGCTGTGGAG CGGCATTAA AATTTTCGTT CCACCGTTAA GAACTATGGC
18061 AGCAAGGCCT GGAACAGCAG CACAGGCCAG ATGCTGAGGG ATAAGTTGAA AGAGCAAAAT
18121 TTCCAACAAA AGGTGGTAGA TGGCCTGGCC TCTGGCATT GCGGGGTGGT GGACCTGGCC
18181 AACCAGGCAG TGCAAAATAA GATTAACAGT AAGCTTGATC CCGGCCCTCC CGTAGAGGAG
18241 CCTCCACCG CCGTGGAGAC AGTGTCTCCA GAGGGGCGTG GCGAAAAGCG TCCGCGCCCC
18301 GACAGGGAAG AAACCTCTGGT GACGCAAATA GACGAGCCTC CCTCGTACGA GGAGGCACTA
18361 AAGCAAGGCC TGCCACCAC CCGTCCCATC GCGCCCATGG CTACCGGAGT GCTGGGCCAG
18421 CACACACCCG TAACGCTGGA CCTGCCTCCC CCGCCGACGA CCCAGCAGAA ACCTGTGCTG
18481 CCAGGCCCCG CCGCCGTTGT TGTAACCCGT CCTAGCCGCG CGTCCCTGCG CCGCGCCGCC
18541 AGCGGTCCGC GATCGTTGCG GCGCGTAGCC AGTGGCAACT GGCAAAGCAC ACTGAACAGC
18601 ATCGTGGGTC TGGGGGTGCA ATCCCTGAAG CGCCGACGAT GCTTCTGAAT AGCTAACGTG
18661 TCGTATGTGT GTCATGTATG CGTCCATGTC GCGCCAGAG GAGCTGTGTA GCCGCGCGC
18721 GCCCGCTTTC CAAGATGGCT ACCCTTCGA TGATGCCGCA GTGGTCTTAC ATGCACATCT
18781 CGGGCCAGGA CGCCTCGGAG TACCTGAGCC CCGGGCTGGT GCAGTTTGCC CGCGCCACCG
18841 AGACGTACTT CAGCCTGAAT AACAAGTTTA GAAACCCAC CCCTGTGGAC CGTGAGGATA
18901 TGACCACAGA CCGGTCCCAG CGTTTGACGC TGCGGTTTCT TAGCTGTGGG TGATAACCGT GTGCTGGACA
18961 CTGCGTACTC GTACAAGGCG CGGTTTACCC TAGCTGGACAG GGGCCCTACT TTTAAGCCCT
19021 TGGCTTCCAC GTACTTTGAC ATCCGCGGCG TGCTGGACAG CCCAAATCCT TGCGAATGGG
19081 ACTCTGGCAC TGCCTACAAC GCCCTGGCTC CCAAGGGTGC GGCAGATGAC AACGAAGACG
19141 ATGAAGCTGC TACTGCTCTT GAAATAAACC TAGAAGAAGA GGAGGAGGAG CTTATTCTG
19201 AAGTAGACGA GCAAGCTGAG CAGCAAAAAA CTCACGTATT TGGGCGAGCG CCTAATATG
19261 GTATAAATAT TACAAAGGAG GGTATTCAAA TAGGTGTCGA AGGTCAAACA CCTAATATG
19321 CCGATAAAAC ATTTCAACCT GAACCTCAAA TAGGAGAATC TCAGTGGTAC GAAACTGAAA
19381 TTAATCATGC AGCTGGGAGA GTCCTTAAAG AGACTACCCC AATGAAACCA TGTTACGGTT
19441 CATATGCAA ACCCACAAAT GAAAATGGAG GGCAAGGCAT TCTTGTAAG CAACAAAATG
19501 GAAAGCTAGA AAGTCAAGTG GAAATGCAAT TTTTCTCAAC TACTGAGGCG ACCGCAGGCA

FIGURE 23
(SHEET 6)

19561	ATGGTGATAA	CTTGACTCCT	AAAGTGGTAT	TGTACAGTGA	AGATGTAGAT	ATAGAAACCC
19621	CAGACACTCA	TATTTCTTAC	ATGCCCACTA	TTAAGGAAGG	TAACCTACGA	GAACATAATGG
19681	GCCAACAATC	TATGCCCAAC	AGGCCTAATT	ACATTGCTTT	TAGGGACAAT	TTTATTGGTC
19741	TAATGTATTA	CAACAGCACG	GTAATATATG	GTGTTCTGGC	GGGCAAGCA	TCGCAGTTGA
19801	ATGCTGTTGT	AGATTGTCAA	GACAGAAACA	CAGAGCTTTC	ATACCAGCTT	TTGCTTGATT
19861	CCATTGGTGA	TAGAACCAGG	TACTTTTCTA	TGTGGAATCA	GGCTGTTGAC	AGCTATGATC
19921	CAGATGTTAG	AATTATTGAA	AATCATGGAA	CTGAAGATGA	ACTTCCAAAT	TACTGCTTTC
19981	CACTGGGAGG	TGTGATTAAT	ACAGAGACTC	TTACCAAGGT	AAAACCTAAA	ACAGGTCAAG
20041	AAAATGGATG	GGAAAAAGAT	GCTACAGAAT	TTTCAGATAA	AAATGAAATA	AGAGTTGGAA
20101	ATAATTTTGC	CATGGAAATC	AATCTAAATG	CCAACCTGTG	GAGAAATTTT	CTGTAATCCA
20161	ACATAGCGCT	GTATTTGCCC	GACAAGCTAA	AGTACAGTCC	TTCCAAACGT	AAAATTTCTG
20221	ATAACCCAAA	CACCTACGAC	TACATGAACA	AGCGAGTGGT	GGCTCCCGGG	TTAGTGGAAT
20281	GCTACATTAA	CCTTGAGGCA	CGCTGGTCCC	TTGAGTATAT	GGACAACGTC	AACCCATTAA
20341	ACCACCACCG	CAATGCTGGC	CTGCGCTACC	GCTCAATGTT	GCTGGGCAAT	GGTCGCTATG
20401	TGCCCTTCCA	CATCCAGGTG	CCTCAGAAGT	TCTTTGCCAT	TAAAAACCTC	CTTCTCCTCG
20461	CGGGCTCATA	CACCTACGAG	TGGAACCTCA	GGAAGGATGT	TAACATGGTT	CTGCAGAGCT
20521	CCCTAGGAAA	TGACCTAAGG	GTGACGGGAG	CCAGCATTA	GTTTGATAGC	ATTTGCGCTT
20581	ACGCCACCTT	CTTCCCCATG	GCCCACAACA	CCGCTCCAC	GCTTGAGGCC	ATGCTTAGAA
20641	ACGACACCAA	CGACAGTCC	TTTAACGACT	ATCTCTCCGC	CGCCAACATG	CTCTACCCTA
20701	TACCCGCCAA	CGCTACCAAC	GTGCCCATAT	CCATCCCCCT	CCGCAACTGG	GCGGCTTTCC
20761	GCGGCTGGGC	CTTACGCGC	CTTAAGACTA	AGGAAACCCC	ATCACTGGGC	TCGGGCTACG
20821	ACCTTATTA	CACCTACTCT	GGCTCTATAC	CCTACCTAGA	TGGAACCTTT	TACCTCAACC
20881	ACACCTTTAA	GAAGTGCGC	ATTACCTTTG	ACTCTTCTGT	CAGCTGGCCT	GGCAATGACC
20941	GCCTGCTTAC	CCCCAACGAG	TTTGAAATTA	AGCGCTCAGT	TGACGGGGAG	GGTTACAACG
21001	TTGCCAGTG	TAACATGACC	AAAGACTGGT	TCCTGGTACA	AATGCTAGCT	AACATAACA
21061	TTGGCTACCA	GGGCTTCTAT	ATCCCAGAGA	GCTACAAGGA	CCGCATGTAC	TCCTTCTTTA
21121	GAAACTTCCA	GCCCATGAGC	CGTCAGGTGG	TGGATGATAC	TAAATAACA	GACTACCAAC
21181	AGGTGGGCAT	CCTACACCAA	CACAACAAC	CTGGATTGTG	TGGCTACCTT	GCCCCACCA
21241	TGCGCGAAGG	ACAGGCCTAC	CCTGCTAAT	TCCCCATACC	GCTTATAGGC	AAGACCGCAG
21301	TTGACAGCAT	TACCCAGAAA	AAGTTTCTTT	GCGATCGCAC	CCTTTGGCGC	ATCCCATTCT
21361	CCAGTAACTT	TATGTCCATG	GGCGCACTCA	CAGACCTGGG	CCAAAACCTT	CTCTACGCCA
21421	ACTCCGCCCA	CGCGCTAGAC	ATGACTTTTG	AGGTGGATCC	CATGGACGAG	CCCACCCTTC
21481	TTTATGTTT	GTTTGAAGTC	TTTGACGTGG	TCCGTGTGCA	CCGGCCGCAC	CGCGGCGTCA
21541	TCGAAACCGT	GTACCTGCGC	ACGCCCTTCT	CGGCCGGCAA	CGCCACAACA	TAAAGAGACA
21601	AGCAACATCA	ACAACAGCTG	CCGCCATGGG	CTCCAGTGAG	CAGGAACGCT	TTCCAGGCTT
21661	CAAAGATCTT	GGTTGTGGGC	CATATTTT	GGGCACCTAT	GCCGGTCGCG	AGACTGGGGG
21721	TGTTTCTCCA	CACAAGCTCG	CCTGCGCCAT	AGTCAATACG	ACATGCTACC	TCTTTGAGCC
21781	CGTACACTGG	ATGGCCTTTG	CCTGGAACCC	GCATCAAAA	TTTGAGTACG	AGTCACTCCT
21841	CTTTGGCTTT	TCTGACCAGC	GACTCAAGCA	GGTTTACCAG	ACGCTGGAAA	AGTCCACCCA
21901	GCGCCGTAGC	GCCATTGCTT	CTTCCCCGGA	CCGCTGTATA	TGCTGCATGT	TTCTCCACCG
21961	AAGCGTACAG	GGGCCCCAAT	CGGCCGCTG	TGGACTATT	ACCATGAACC	TTAATCCCGG
22021	CTTTGCCAAC	TGGCCCCAAA	CTCCCATGGA	TCACAACCCC	ACCCGTGCGT	GCAACACGGA
22081	GGTACCCAA	TCCATGCTCA	ACAGTCCCCA	GGTACAGCCC	CGCAGCCACA	GTGCGCAGAT
22141	ACAGCTCTAC	AGCTTCTTGG	AGCGCCACTC	GCCCTACTTC	AAATAATGTA	CTAGAGACAC
22201	TAGGAGCGCC	ACTTCTTTTT	GTCACTTGAA	AAACATGTAA	TGATTATTTA	CCCCACCCTT
22261	TTTCAATAAA	GGCAAATGCT	TTTATTTGTA	CACTCTCGGG	GCATCGCTAT	GCGCCACTGG
22321	TGCCGTCTGC	GCCGTTTAAA	AATCAAAGGG	GTCTGCGCG	AACCTAGGCA	CAACCATCCG
22381	CAGGGACACG	TTGCGATACT	GGTGTTTAGT	GCTCCACTTA	ATCACCACG	CGTTTAGCAG
22441	CGGCAGCTCG	GTGAAGTTTT	CACCTCCACG	GCTGCGCACC	CCCTGCGCGC	GCGAGTTGCG
22501	GTCGGGCGCC	GATATCTTGA	AGTCGAGTT	GGGGCCTCCG	TGGTGACAGG	TGGCCAGCAC
22561	ATACACAGGG	TTGCAGCACT	GGAACACTAT	CAGCGCCGGG	TTGCTCAGGG	GGAACGGAGT
22621	GCTCTTGTCG	GAGATCAGAT	CCGCGTCCAG	GTCCTCCGCG	GGCTTTGAGT	TGCACTCGCA
22681	CAACTTTGGT	AGCTGCCTTC	CCAAAAAGGG	CGCGTGCCCA	TTAGGATACA	GCGCCTGCAT
22741	CCGTAGTGGC	ATCAAAAGGT	GACCGTGCCC	GGTCTGGGCG	CCTTCAGAGA	AGAACATGCC
22801	AAAAGCCTTG	ATCTGCTTAA	AAGCCACCTG	AGCCTTTGCG	TCGTGCACGC	AGCACCTTGC

kd3

22981 GCTAGACTGC TCCTTCAGCG CGCGCTGCCC GTTTTCGCTC GTCACATCCA TTTCAATCAC
 23041 GTGCTCCTTA TTTATCATAA TGCTTCCGTG TAGACACTTA AGCTCGCCTT CGATCTCAGC
 23101 GCAGCGGTGC AGCCACAACG CGCAGCCCGT GGGCTCGTGA TGCTTGTAGG TCACCTCTGC
 23161 AAACGACTGC AGGTACGCCT GCAGGAATCG CCCCATCATC GTCACAAAGG TCTTGTGTCT
 23221 GGTGAAGGTC AGCTGCAACC CGCGGTGCTC CTCGTTTCAGC CAGGTCTTGC ATACGGCCGC
 23281 CAGAGCTTCC ACTTGGTCAG GCAGTAGTTT GAAGTTTCGCC TTTAGATCGT TATCCACGTG
 23341 GTACTTGTCC ATCAGCGCGC GCGCAGCCTC CATGCCCTTC TCCCACGCAG ACACGATCGG
 23401 CACACTCAGC GGGTTCATCA CCGTAATTTT ACTTTCCGCT TCGCTGGGCT CTCTCTCTTC
 23461 CTCTTGCGTC CGCATAACCAC GCGCCACTGG GTCGTCTTCA TTCAGCCGCC GCACTGTGCG
 23521 CTTACCTCCT TTGCCATGCT TGATTAGCAC CGGTGGGTTG CTGAAACCCA CCATTTGTAG
 23581 CGCCACATCT TCTCTTTCTT CCTCGCTGTC CACGATTACC TCTGGTGATG GCGGGCGCTC
 23641 GGGCTTGGA GAAGGGCGCT TCTTTTCTT CTTGGGCGCA ATGGCCAAAT CCGCCGCCGA
 23701 GGTCGATGGC CGCGGGCTGG GTGTGCGCGG CACCAGCGCG TCTTGTGATG AGTCTTCTC
 23761 GTCCTCGGAC TCGATACGCC GCCTCATCCG CTTTTTGGG GCGCGCCGGG GAGGCGGCGG
 23821 CGACGGGGAC GGGGACGACA CGTCTCCAT GGTGCGGGA CGTCCGCCG CACCAGCTCC
 23881 GCGCTCGGGG GTGGTTTCGC GCTGCTCCTC TTCCCGACTG GCCATTTCTT TCTCTATAG
 23941 GCAGAAAAAG ATCATGGAGT CAGTCGAGAA GAAGGACAG CTAACCGCCC CCTCTGAGT
 24001 CGCCACCACC GCCTCCACCG ATGCCGCCAA CGCGCCTACC ACCTTCCCCG TCAGAGCACC
 24061 CCCGCTTGAG GAGGAGGAAG TGATTATCGA GCAGGACCCA GGTTTTGTA GCGAAGACGA
 24121 CGAGGACCGC TCAGTACCAA CAGAGGATAA AAAGCAAGAC CAGGACAACG CAGAGGCAAA
 24181 CGAGGAACAA GTCGGGCGGG GGGACGAAAG GCATGCGGAC TACCTAGATG TGGGAGACGA
 24241 CGTGCTGTTG AAGCATCTGC AGCGCCAGTG CGCCATTATC TGCGACGCGT TGCAAGAGCG
 24301 CAGCGATGTG CCCCTCGCCA TAGCGGATGT CAGCCTTGCC TACGAACGCC ACCTATTCTC
 24361 ACCGCGCGTA CCCCCCAAAC GCCAAGAAAA CGGCACATGC GAGCCCAACC CGCGCCTCAA
 24421 CTTCTACCCC GTATTTGCCG TGCCAGAGGT GCTTGCCACC TATCACATCT TTTTCCAAAA
 24481 CTGCAAGATA CCCCTATCCT GCCGTGCCAA CCGCAGCCGA GCGGACAAGC AGCTGGCCTT
 24541 GCGGCAGGGC GCTGTCTATC CTGATATCGC CTCGCTCAAC GAAGTGCCAA AAATCTTTGA
 24601 GGGTCTTGGA CGCGACGAGA AGCGCGCGGC AAACGCTCTG CAACAGGAAA ACAGCGAAAA
 24661 TGAAAGTCAC TCTGGAGTGT TGGTGGAACT CGAGGGTGAC AACGCGCGCC TAGCCGTACT
 24721 AAAACGCACG ATCGAGGTCA CCCACTTTGC CTACCCGGCA CTTAACCTAC CCCCCAAGT
 24781 CATGACACA GTCATGAGTG AGCTGATCGT GCGCCGTGCG CAGCCCCTGG AGAGGGATGC
 24841 AAATTTGCAA GAACAAACAG AGGAGGGCCT GGAGGAGCGA CGCAAATAA TGATGGCCGC
 24901 CTGGCTTCAA ACCGTGGAGC CTGCCGACTT GGAGGTGCAT GCAGCGGTTT TTTGCTGACC CCGAGATGCA
 24961 AGTGCTCGTT ACCGTGGAGC TGCACTACAC CTTTCGACAG GGCTACGTAC GCGAGGCTG
 25021 GCGCAAGCTA GAGGAAACAT TCTGCAACCT GGTCTCTAC CTTGGAATTT TGCACGAAAA
 25081 CAAGATCTCC AACGTGGAGC TCTGCAACCT GGTCTCTAC CTTGGAATTT TGCACGAAAA
 25141 CCGCCTTGGG CAAAACGTGC TTCATTCCAC GCTCAAGGGC GAGGCGCGCC GCGACTACGT
 25201 CCGCAGTGC GTTTACTTAT TTCTATGCTA CACCTGGCAG ACAGGCGATG GCGTTTGGCA
 25261 GCAGTGCTTG GAGGAGTGCA ACCTCAAGGA GCTGCAGAAA CTGCTAAAGC AAAACTTGAA
 25321 GGACCTATGG ACGGCCTTCA ACGAGCGCTC CGTGGCCGCG CACCTGGCGG ACATCATTTT
 25381 CCCCAGACGC CTGCTTAAAA CCCTGCAACA GGGTCTGCCA GACTTCACCA GTCAAAGCAT
 25441 GTTGCAAGAC TTTAGGAAT TATCCTAGA GCGCTCAGGA ATCTTGCCCG CCACCTGCTG
 25501 TGCACTTCCT AGCGACTTTG TGCCCATTA GTACCGCGAA TGCCCTCCG CGCTTTGGGG
 25561 CCACTGCTAC CTTCTGCAGC TAGCCAACTA CTTGCTTAC CACTCTGACA TAATGGAAGA
 25621 CGTGAGCGGT GACGGTCTAC TGGAGTGTA CTGTGCTGC AACCTATGCA CCCCACACCG
 25681 CTCCCTGGTT TGCAATTGCG AGCTGCTTAA CGAAAGTCAA ATTATCGGTA CCTTTGAGCT
 25741 GCAGGGTCCC TCGCCTGACG AAAAGTCCGC GGCTCCGGG TTGAACTCA CTCGGGGGCT
 25801 GTGGACGTCG GCTTACCTTC GCAAATTTGT ACCTGAGGAC TACCACGCCC ACGAGATTAG
 25861 GTTCTACGAA GACCAATCCC GCCCGCCAAA TGCGGAGCTT ACCGCCTGCG TCATTACCCA
 25921 GGGCCACATT CTTGGCCAAT TGCAAGCCAT CAACAAAGCC CGCCAAGAGT TTCTGCTACG
 25981 AAAGGGACGG GGGGTTTACT TGGACCCCA GTCCGCGGAG GAGCTCAACC CAATCCCCC
 26041 GCCCGCGCAG CCCTATCAGC AGCAGCCGCG GGCCCTTGCT TCCCAGGATG GCACCCAAAA
 26101 AGAAGCTGCA GCTGCCGCCG CCACCCACGG ACGAGGAGGA ATACTGGGAC AGTCAGGCAG
 26161 AGGAGGTTTT GGACGAGGAG GAGGAGGACA TGATGGAAGA CTGGGAGAGC CTAGACGAGG
 26221 AAGCTTCCGA GGTGCAAGAG GTGTGACAG AAACACCGTC ACCCTCGGTC GCATTCCCCT
 26281 CGCCGGCGCC CCAGAAATCG GCAACCGGTT CCAGCATGGC TACAACCTCC GCTCCTCAGG
 26341 CGCCGCCGGC ACTGCCCGTT CGCCGACCCA ACCGTAGATG GGACACCACT GGAACCAGGG

FIGURE 23
(SHEET 8)

00351778-071200

26401	CCGGTAAGTC	CAAGCAGCCG	CCGCCGTTAG	CCCAAGAGCA	ACAACAGCGC	CAAGGCTACC
26461	GCTCATGGCG	CGGGCACAAG	AACGCCATAG	TTGCTTGCTT	GCAAGACTGT	GGGGGCAACA
26521	TCTCCTTCGC	CCGCCGCTTT	CTTCTCTACC	ATCACGGCGT	GGCCTTCCCC	CGTAACATCC
26581	TGCATTACTA	CCGTCATCTC	TACAGCCCAT	ACTGCACCGG	CGGCAGCGGC	AGCGGCAGCA
26641	ACAGCAGCGG	CCACACAGAA	GCAAAGGCGA	CCGGATAGCA	AGACTCTGAC	AAAGCCCAAG
26701	AAATCCACAG	CGGCGGCAGC	AGCAGGAGGA	GGAGCGCTGC	GTCTGGCGCC	CAACGAACCC
26761	GTATCGACCC	GCGAGCTTAG	AAACAGGATT	TTTCCCACTC	TGTATGCTAT	ATTTCAACAG
26821	AGCAGGGGCC	AAGAACAAGA	GCTGAAAATA	AAAAACAGGT	CTCTGCGATC	CCTCACCCTG
26881	AGCTGCCTGT	ATCACAAAAG	CGAAGATCAG	CTTCGGCGCA	CGCTGGAAGA	CGCGGAGGCT
26941	CTCTTCAGTA	AATACTGCGC	GCTGACTCTT	AAGGACTAGT	TTCGCGCCCT	TTCTCAAATT
27001	TAAGCGCGAA	AACTACGTCA	TCTCCAGCGG	CCACACCCGG	CGCCAGCACC	TGTCGTCAGC
27061	GCCATTATGA	GCAAGGAAAT	TCCCACGCCC	TACATGTGGA	GTTACCAGCC	ACAAATGGGA
27121	CTTGCGGCTG	GAGCTGCCCC	AGACTACTCA	ACCCGAATAA	ACTACATGAG	CGCGGGACCC
27181	CACATGATAT	CCCGGGTCAA	CGGAATCCGC	GCCCACCGAA	ACCGAATTCT	CTTGGAACAG
27241	GCGGCTATTA	CCACCACACC	TCGTAATAAC	CTTAATCCCC	GTAGTTGGCC	CGCTGCCCTG
27301	GTGTACCAGG	AAAGTCCCGC	TCCCACCACT	GTGGTACTTC	CCAGAGACGC	CCAGGCCGAA
27361	GTTTCAGATGA	CTAACTCAGG	GGCGCAGCTT	GCGGGCGGCT	TTCGTACACG	GGTGCGGTGC
27421	CCCGGGCAGG	GTATAACTCA	CCTGACAATC	AGAGGGCGAG	GTATTCAGCT	CAACGACGAG
27481	TCGGTGAGCT	CCTCGCTTGG	TCTCCGTCCG	GACGGGACAT	TTCAGATCGG	CGCGGCCCGC
27541	CGTCCTTCAT	TCACGCCCTG	TCAGGCAATC	CTAACTCTGC	AGACCTCGTC	CTCTGAGCCG
27601	CGCTCTGGAG	GCATTGGAAC	TCTGCAATTT	ATTGAGGAGT	TTGTGCCATC	GGTCTACTTT
27661	AACCCCTTCT	CGGGACCTCC	CGGCCACTAT	CCGGATCAAT	TTATTCTTAA	CTTTGACGCG
27721	GTAAAGGACT	CGGCGGACGG	CTACGACTGA	ATGTTAAGTG	GAGAGGCAGA	GCAACTGCGC
27781	CTGAAACACC	TGGTCCACTG	TCGCCGCCAC	AAGTGCTTTG	CCCGCGACTC	CGGTGAGTTT
27841	TGCTACTTTG	AATTGCCCCG	GGATCATATC	GAGGGCCCCG	CGCACGGCGT	CCGGCTTACC
27901	GCCCAGGGAG	AGCTTGCCCC	TAGCCTGATT	CGGGAGTTTA	CCCAGCGCCC	CCTGTAGTTT
27961	GAGCGGGACA	GGGGACCTTG	TGTTCTCACT	GTGATTTGCA	ACTGTCTTAA	CCTTGATTA
28021	CATCAAGATC	TTTGTGTCCT	TCTCTGTGCT	GAGTATAATA	AATACAGAAA	TTAAATATA
28081	CTGGGGCTCC	TATCGCCATC	CTGTAAACGC	CACCGTCTTC	ACCCGCCCAA	GCAAACCAAG
28141	GCGAACCTTA	CCTGGTACTT	TTAACATCTC	TCCCTCTGTG	ATTTACAACA	GTTTCAACCC
28201	AGACGGAGTG	AGTCTACGAG	AGAACCTCTC	CGAGCTCAGC	TACTCCATCA	GAAAAACAC
28261	CACCCCTCCT	ACCTGCCGGG	AACGTACGAG	TGCGTCACCG	GCCGCTGCAC	CACACCTACC
28321	GCCTGACCGT	AAACCAGACT	TTTTCCGGAC	AGACCTCAAT	AACTCTGTTT	ACCAGAACAG
28381	GAGGTGAGCT	TAGAAAACCC	TTAGGGTATT	AGGCCAAAGG	CGCAGCTACT	GTGGGGTTTA
28441	TGAACAATTC	AAGCAACTCT	ACGGGCTATT	CTAATTCAGG	TTTCTCTAGA	AGTCAGGCTT
28501	CCTGGATGTC	AGCATCTGAC	TTTGGCCAGC	ACCTGTCCCC	CGGATTGTTT	CCAGTCCAAC
28561	TACAGCGACC	CACCCTAACA	GAGATGACCA	ACACAACCAA	CAATAACTGG	GATAACTTGG
28621	TTACATCTAC	CACAAATACA	CCCCAAGTTT	CTGCCTTTGT	TATTATTATG	TGGCTCATCT
28681	GCATGTGGTG	GTTCTCCATA	GCGCTTATGT	TTGTATGCCT	TATTATTATG	TGGCTCATCT
28741	GCTGCCTAAA	GCGCAAACGC	GCCCGACACC	CCATCTATAG	TCCCATCATT	TCTCTTACAG
28801	CAAACAATGA	TGGAATCCAT	AGATTGGACG	GACTGAAACA	CATGTTCTTT	TCTCTTACAG
28861	TATGATTAAA	TGAGATCTAG	AAATGGACGG	AATTATTACA	GAGCAGCGCC	TGCTAGAAAG
28921	ACGCAGGGCA	GCGGCCGAGC	AACAGCGCAT	GAATCAAGAG	CTCCAAGACA	TGGTTAACTT
28981	GCACCAAGTG	AAAAGGGGTA	TCTTTTGTCT	GGTAAAGCAG	GCCAAAGTCA	CCTACGACAG
29041	TAATACCACC	GGACACCGCC	TTAGCTACAA	GTTGCCAACC	AAGCGTCAGA	AATTGGTGGT
29101	CATGGTGGA	GAAAAGCCCC	TTACCATAAC	TCAGCACTCG	GTAGAAACCG	AAGGCTGCAT
29161	TCACTCACCT	TGTCAAGGAC	CTGAGGATCT	CTGCACCCTT	ATTAAGACCC	TGTGCGGTCT
29221	CAAAGATCTT	ATTCCCTTTA	ACTAATAAAA	AAAAATAATA	AAGCATCACT	TACTTAAAT
29281	CAGTTAGCAA	ATTTCTGTCC	AGTTTATTCA	GCAGCACCTC	CTTGCCCTCC	TCCGACTCT
29341	GGTATTGCAG	CTTCCTCCTG	GCTGCAAACT	TTCTCCACAA	TCTAAATGGA	ATGTCAGTTT
29401	CCTCCTGTTT	CTGTCCATCC	GCACCCACTA	TCTTCATGTT	GTTGCAGATG	AAGCGCGCAA
29461	GACCGTCTGA	AGATACCTTC	AACCCCGTGT	ATCCATATGA	CACGGAAACC	GGTCTCCAA
29521	CTGTGCCCTT	TCTTACTCCT	CCCTTTGTAT	CCCCCAATGG	GTTTCAAGAG	AGTCCCCCTG
29581	GGGTACTCTC	TTTGCGCCTA	TCCGAACCTC	TAGTTACCTC	CAATGGCATG	CTTGCGCTCA
29641	AAATGGGCAA	CGGCCTCTCT	CTGGACGAGG	CCGGCAACCT	TACCTCCCAA	AATGTAACCA
29701	CTGTGAGCCC	ACCTCTCAAA	AAAACCAAGT	CAAACATAAA	CCTGGAATAA	TCTGCACCCC
29761	TCACAGTTAC	CTCAGAAGCC	CTAACTGTGG	CTGCCGCCGC	ACCTCTAATG	GTGCGGGGCA

FIGURE 23
(SHEET 9)

095478-071560

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29821 ACACACTCAC CATGCAATCA CAGGCCCCGC TAACCGTGCA CGACTCCAAA CTTAGCATTG
29881 CCACCCAAGG ACCCTCACA GTGTCAGAAG GAAAGCTAGC CCTGCAAACA TCAGGCCCCC
29941 TCACCACCAC CGATAGCAGT ACCCTTACTA TCACTGCCTC ACCCCCTCTA ACTACTGCCA
30001 CTGGTAGCTT GGGCATTGAC TTGAAAGAGC CCATTTATAC ACAAATGGA AACTAGGAC
30061 TAAAGTACGG GGCTCCTTTG CATGTAACAG ACGACCTAAA CACTTTGACC GTAGCAACTG
30121 GTCCAGGTGT GACTATTAAT AATACTTCCT TGCAAATAA AGTTACTGGA GCCTTGGGTT
30181 TTGATTACACA AGGCAATATG CAACTTAATG TAGCAGGAGG ACTAAGGATT GATTCTCAAA
30241 ACAGACGCCT TATACTTGAT GTTAGTTATC CGTTTGATGC TCAAAACCAA CTAAATCTAA
30301 GACTAGGACA GGGCCCTCTT TTTATAAACT CAGCCCACAA CTTGGATATT AACTACAACA
30361 AAGGCCTTTA CTTGTTTACA GCTTCAAACA ATTCCAAAAA GCTTGAGGTT AACCTAAGCA
30421 CTGCCAAGGG GTTGATGTTT GACGCTACAG CCATAGCCAT TAATGCAGGA GATGGGCTTG
30481 AATTTGGTTC ACCTAATGCA CCAAACACAA ATCCCCTCAA AACAAAAATT GGCCATGGCC
30541 TAGAATTTGA TTCAAACAAG GCTATGGTTC CTAAACTAGG AACTGGCCTT AGTTTGACA
30601 GCACAGGTGC CATTACAGTA GGAAACAAAA ATAATGATAA TGCTAAACTC ACTTTGGTCT
30661 CAGCTCCATC TCCTAACTGT AGACTAAATG CAGAGAAAGA TTTGGCTGTT AAAGGCAGTT
30721 TAACAAAATG TGGCAGTCAA ATACTTGCTA CAGTTTCAGT TTTGGCTGTT AAAGGCAGTT
30781 TGGCTCCAAT ATCTGGAACA GTTCAAAGTG CTCATCTTAT TATAAGATTT GACGAAAATG
30841 GAGTGCTACT AAACAATTCC TTCCTGGACC CAGAATATTG GAACCTTTAGA AATGGAGATC
30901 TTACTGAAGG CACAGCCTAT ACAACGCTG TTGGATTTAT GCCTAACCTA TCAGCTTATC
30961 CAAAATCTCA ACCTGTAACA CTAACCATTA CACTAAACGG TACACAGGAA ACAGGAGACA
31021 ACAAACCTAA ACCTGTAACA CTAACCATTA CATGGGACTG GTCTGGCCAC AACTACATTA
31081 CAACTCCAAG TGCATACTCT ATGTCAATTT CATGGGACTG GTCTGGCCAC AACTACATTA
31141 ATGAAATATT TGCCACATCC TCTTACACTT TTTTATACAT TGCCCAAGAA TAAAGAATCG
31201 TTTGTGTTAT GTTTCAACGT GTTTATTTTT CAATTGCAGA AAATTTCAAG TCATTTTCA
31261 TTCAGTAGTA TAGCCCCACC ACCACATAGC TTATACAGAT CACCGTACCT TAATCAAACT
31321 CACAGAACCC TAGTATTCAA CCTGCCACCT CCCTCCCAAC ACACAGAGTA CACAGTCCCT
31381 TCTCCCCGGC TGGCCTTAAA AAGCATCATA TCATGGGTAA CAGACATATT CTTAGTGTGT
31441 ATATTCCACA CGGTTTCCTG TCGAGCCAAA CGCTCATCAG TGATATTAAT AAACCTCCCCG
31501 GGCAGCTCAC TTAAGTTCAT GTCGCTGTCC AGCTGCTGAG CCACAGGCTG CTGTCCAAC
31561 TGCGGTTGCT TAACGGGCGG CGAAGGAGAA GTCCACGCCT ACATGGGGGT AGAGTCATAA
31621 TCGTGCATCA GGATAGGGCG GTGGTGCTGC AGCAGCGCGC GAATAAACTG CTGCCGCCGC
31681 CGCTCCGTCC TGCAGGAATA CAACATGGCA GTGGTCTCCT CAGCGATGAT TCGCACCGCC
31741 CGCAGCATAA GCGCCTTGT CCTCCGGGCA CAGCAGCGCA CCCTGATCTC ACTTAAATCA
31801 GCACAGTAAC TGCAGCACAG CACCACAATA TTGTTCAAAA TCCCACAGTG CAAGGCGCTG
31861 TATCCAAAGC TCATGGCGGG GACCACAGAA CCCACGTGGC CATCATACCA CAAGCGCAGG
31921 TAGATTAAGT GGCGACCCCT CATAAACACG CTGGACATAA ACATTACCTC TTTTGGCATG
31981 TTGTAAATCA CCACCTCCCG GTACCATATA AACCTCTGAT TAAACATGGC GCCATCCACC
32041 ACCATCCTAA ACCAGCTGGC CAAAACCTGC CCGCCGGCTA TACACTGCAG GGAACCGGGA
32101 CTGGAACAAT GACAGTGGAG AGCCCAGGAC TCGTAACCAT GGATCATCAT GCTCGTCATG
32161 ATATCAATGT TGGCACAACA CAGGCACACG TGCATACTCT TCCTCAGGAT TACAAGCTCC
32221 TCCCGCGTTA GAACCATATC CCAGGGAACA ACCCATTCCT GAATCAGCGT AAATCCCACA
32281 CTGCAGGGAA GACCTCGCAC GTAACTCACG TTGTGCATTG TCAAAGTGTT ACATTCGGGC
32341 AGCAGCGGAT GATCCTCCAG TATGGTAGCG CCGGTTTCTG TCTCAAAGG AGGTAGACGA
32401 TCCCTACTGT ACGGAGTGCG CCGAGACAAC CGAGATCGTG TTGGTCGTAG TGTATGCCA
32461 AATGGAACGC CGGACGTAGT CATATTTTCT GAAGCAAAAC CAGGTGCGGG CGTGACAAAC
32521 AGATCTGCGT CTCCGGTCTC GCCGCTTAGA TCGTCTGTG TAGTAGTTGT AGTATATCCA
32581 CTCTCTCAA GCATCCAGGC GCCCCCTGGC TTCGGGTTCT ATGTAAACTC CTTATGCGC
32641 CGCTGCCCTG ATAACATCCA CCACCGCAGA ATAAGCCACA CCCAGCCAAC CTACACATTC
32701 GTTCTGCGAG TCACACACGG GAGGAGCGGG AAGAGCTGGA AGAACCATGT TTTTTTTTTT
32761 ATCCAAAAG ATTATCCAAA ACCTCAAAAT GAAGATCTAT TAAGTGAACG CGCTCCCCTC
32821 CGGTGGCGTG GTCAAACTCT ACAGCCAAAG AACAGATAAT GGCATTTGTA AGATGTTGCA
32881 CAATGGCTTC CAAAAGGCAA ACGGCCCTCA CGTCCAAGTG GACGTAAAGG CTAAACCCTT
32941 CAGGGTGAAT CTCCTCTATA AACATTCCAG CACCTTCAAC CATGCCAAA TAATTCTCAT
33001 CTCGCCACCT TCTCAATATA TCTCTAAGCA AATCCCGAAT ATTAAGTCCG GCCATTGTAA
33061 AAATCTGCTC CAGAGCGCCC TCCACCTTCA GCTCAAGCA GCGAATCATG ATTGCAAAAA
33121 TTCAGTTCC TCACAGACCT GTATAAGATT CAAAAGCGGA ACATTAACAA AAATACCGCG
33181 ATCCCGTAGG TCCCTTCGCA GGGCCAGCTG AACATAATCG TGCAGGTCTG CACGGACCAG

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FIGURE 23
(SHEET 10)

33241 CGCGGCCACT TCCCCGCCAG GAACCTTGAC AAAAGAACCC ACACTGATTA TGACACGCAT
33301 ACTCGGAGCT ATGCTAACCA GCGTAGCCCC GATGTAAGCT TTGTTGCATG GGCGGCGATA
33361 TAAAATGCAA GGTGCTGCTC AAAAAATCAG GCAAAGCCTC GCGCAAAAAA GAAAGCACAT
33421 CGTAGTCATG CTCATGCAGA TAAAGGCAGG TAAGCTCCGG AACCACCACA GAAAAAGACA
33481 CCATTTTTTCT CTCAAACATG TCTGCGGGTT TCTGCATAAA CACAAAATAA AATAACAAAA
33541 AAACATTTTAA ACATTAGAAG CCTGTCTTAC AACAGGAAAA ACAACCCTTA TAAGCATAAG
33601 ACGGACTACG GCCATGCCGG CGTGACCGTA AAAAAACTGG TCACCGTGAT TAAAAAGCAC
33661 CACCGACAGC TCCTCGGTCA TGTCCGGAGT CATAATGTAA GACTCGGTAA ACACATCAGG
33721 TTGATTCATC GGTCAGTGCT AAAAAAGCGAC CGAAATAGCC CGGGGGAATA CATACCCGCA
33781 GGCGTAGAGA CAACATTACA GCCCCCATAG GAGGTATAAC AAAATTAATA GGAGAGAAAA
33841 ACACATAAAC ACCTGAAAAA CCCTCCTGCC TAGGCAAAAT AGCACCTCC CGCTCCAGAA
33901 CAACATACAG CGCTTCACAG CGGCAGCCTA ACAGTCAGCC TTACCAGTAA AAAAGAAAAAC
33961 CTATTAAAAA AACACCACTC GACACGGCAC CAGCTCAATC AGTCACAGTG TAAAAAAGGG
34021 CCAAGTGCAG AGCGAGTATA TATAGGACTA AAAAATGACG TAACGGTTAA AGTCCACAAA
34081 AAACACCCAG AAAACCGCAC GCGAACCTAC GCCCAGAAAC GAAAGCCAAA AAACCCACAA
34141 CTTCTCTCAA TCGTCACTTC CGTTTTCCCA CGTTACGTAA CTTCCCATTT TAAGAAAAC
34201 ACAATTCCCA ACACATACAA GTTACTCCGC CCTAAACCT ACGTCACCCG CCCC GTTCCC
34261 ACGCCCCGCG CCACGTCACA AACTCCACCC CCTCATTATC ATATTGGCTT CAATCCAAAA
34321 TAAGGTATAT TATTGATGAT G

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FIGURE 23
(SHEET 11)